```
ggtggtcctg cctgtgccag cctgacagca cccatggggc accgggatgg ggaccaagcc    120
ctgtgagagg catcggggag ggtgctgggc ccgggcgctg tactcacccg caccctctgc    180
agatgaccca gtgctacttt gagggggggct accaggagac ccctgtgtac ctgctggcag    240
agctgggcta tgggcacaag ctccatgggc cctgcctcat catcgacagt aacaggtggg    300
ctgaagtccg gccagggtgg aggatgtgga cgggtccact gcggggcccc tggtgcaggg    360
ttctctggcc caaggctgca ggggcctgca ggactctgta tcccaccatc gatggggtgg    420
```

<210> 2550
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(307)
<223> similar to gi200964 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2550
```
tgtggttgtg gaagttgcgg tggctgtggt ggccgctgcg gtggtggctg tggtggtggc     60
tgcagtggtg gctgcggtgg tggctgcggt ggtggctgtg gtggtggctg tggcagctgc    120
accacctgca ggtgctaccg ggtgggctgc tgctccagct gctgcccctg ctgccgcggc    180
tgctgtggag gctgctgcag cactcccgtg atctgctgct gccgccgcac ctgcggctcg    240
tgtggctgtg gctatgggaa gggctgttgc caacagaaat gctgctgcca gaagcaatgc    300
tgctgctagg cgggcccccg gcctctgggc aggggctgca ggtatctgcc ctgtaggtaa    360
gactcccatc cttcccatcc tgtctggtct cccctcctc tgtggtcttg a             411
```

<210> 2551
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (25)...(340)
<223> similar to gi5689447 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2551
```
aagatcccca gccggggtat taccctgaag gccgccacca agcaagcgat gctgtactgg     60
ctgcagcagc tgcagatgaa gcgctgggaa ttccacaaca gcccgccggc acctcctgcc    120
accctgatg ccgccctggc tgggaatggg cccgtcctgc acctcgagct agggcaagaa    180
gaggcagagc tggaggagtt cctgtgccct gtgaaaacac cccctgggct agtgggcgtg    240
```

```
gcagctgcct tgcagccctt ccctgccctt cagaatattt ccctcaagca cctggggact    300
gaaatacaga acacaatgca caacatccgt ggcaacaagc aggcccaggg aacaggccat    360
gaacctccag gggaagattc tccacagagt ggggagcctc aaagggaaga a             411
```

<210> 2552
<211> 577
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (18)...(580)
<223> similar to gi2801403 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2552
```
cccgggtcga cccacgcgtc cgctttgaca gcctggccgc tgccaataga gccatctgtc     60
acatgaatgg agtgcggctc aacaaccgcc aggtgtatgt tggcagattc aaattcccag    120
aagagcgggc ggctgaggtc agaaccaggg atagagcaac tttcaccaat gttttcgtta    180
aaaacattgg agacgacata gatgacgaaa aactgaagga acttttctgt gaatatgggc    240
caactgagag tgttaaagta ataagagatg ccagtgggaa atctaaaggc tttggatttg    300
tgagatatga gacacacgag gctgcccaaa aggctgtgct agacttgcat ggaaagtcca    360
tcgatggaaa agtcctctat gtagggcgag cacagaagaa aattgaacgc ctggctgagt    420
tgaggcggag atttgaacgg ctgaggttaa aagaaaaaag tcggccccca ggggtgccta    480
tctatattaa gaacttggat gagacaatca atgatgaaaa actgaaggag gaattttctt    540
cctttgggtc aattaatccg gccaaagtga tgatggg                             577
```

<210> 2553
<211> 2115
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2116)
<223> similar to gi3165406 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2553
```
gatctgtgcg tgggggatgt ggtctgtctc cgcaaggaca acatcgtccc agccgacatg     60
ctcttgctgg ccagcacgga gcccagcagc ctgtgctatg tggagacggt ggacattgac    120
ggggagacca acttgaagtt cagacaggcc ctgatggtca cccacaaaga actggccact    180
ataaagaaga tggcgtcctt tcaaggcaca gtgacgtgtg aggcgcctaa cagtcggatg    240
```

```
caccacttcg tggggtgcct ggaatggaat gacaagaaat actccctgga cattggcaac     300
ctcctcctcc gaggctgcag gattcgcaac acagacacct gctatggact ggtcatttat     360
gctggttttg acacaaaaat tatgaagaac tgtggcaaga tccatttgaa gagaaccaag     420
ctggacctcc tgatgaacaa gctggtggtt gtgatcttca tctccgtggt gcttgtctgc     480
ctggtgttgg ccttcggctt cggtttctca gtcaaagaat tcaaagacca ccactactac     540
ctctcggggg tgcatgggag cagcgtggcc gcagagtcct tcttcgtctt ctggagcttc     600
ctcatcctgc tcagcgtcac catcccgatg tccatgttca tcctgtccga gttcatctac     660
ctggggaaca gcgtcttcat cgactgggac gtgcagatgt actacaagcc gcaggacgtg     720
cctgccaagg cccgcagcac cagcctcaac gaccacctgg gccaggtgga atacatcttc     780
tcggacaaga cgggcacgct cacgcagaac atcttgacct tcaacaagtg ctgcatcagc     840
ggccgcgtct atggtgaacc cctacctctg gaacaagttc gccgacggga agctgctctt     900
ccacaatgcg gccctgctgc acctcgtgcg gaccaacggg gacgaggccg tgcgggagtt     960
ctggcgcctg ctggccatct gccacacggt gatgaccagc tgttgtacca ggcggcctcc    1020
cccgacgagg gggcgctggt caccgcagcc cggaacttcg gctacgtgtt cctgtcccgc    1080
acccaggaca ccgtcacgat catggagctg ggggaggaac gggtctacca ggtcctggcc    1140
ataatggact tcaacagcac gcgcaaacgg atgtcggtgc tggttcgaaa gccagagggc    1200
gccatctgcc tgtacaccaa gggcgccgac acggtcatct tcgaacgctt gcacaggagg    1260
ggggcaatgg aatttgccac agaggaggcc ttggctgcct ttgcccagga gaccctgcgg    1320
acactgtgcc tggcctacag ggaggtggct gaggacattt acgaggactg gcagcagcgc    1380
caccaggagg ccagcctcct gctgcagaac cgggcacagg ccctgcaaca ggtgtacaac    1440
gagatggagc aggacctcag gctgctggga gccacagcca tcgaggacag actccaggac    1500
ggtgtccctg aaaccatcaa atgtctcaag aagagcaaca tcaaaatatg ggtgctcacc    1560
ggggacaagc aggaaacggc tgtgaacatc ggcttcgcct gcgagctgct gtcagagaat    1620
atgctcattc tggaggagaa ggagattagc cgcatcctgg agacctactg gaaaaacagt    1680
aacaaccttc taaccaggga gtccctgtcg caggtcaagc tggccttggt cattaacgga    1740
gacttcctgg acaaactgct ggtgtccctg cggaaggagc cgcgcgccct ggcgcagaac    1800
gtgaacatgg acgaggcgtg gcaggagctc ggccagtcca ggagggattt cctctacgcc    1860
aggcgcctgt ccctgctgtg ccggaggttc gggctcccgc tggctgcacc gccagcccag    1920
gactccagag cccgccgtag ctccgaggtg ctgcaggagc gcgccttcgt ggacctggcg    1980
tccaagtgcc aggcggtcat ctgctgccgc gtgacgccca agcagaaggc cctgatcgtg    2040
gccctggtca agaagtacca ccaggtggtg accctggcca tcggggacgg tgccaacgac    2100
atcaacatga tcaag                                                     2115
```

<210> 2554
<211> 418
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (79)...(218)
<223> similar to gi1504014 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2554
```
tcctctagag cggccgctcg cgatctctga ctcctccagc tggacacatc tctccctggg      60
gcgggggtgg tctgtgtcca gctggaggag tcagagttca cctgtgcggc agccgtgaaa     120
gcacggaaag caatggaggt ggagatcgaa gacctgcacc tgcagattga tgacatcgcc     180
aaagccaaga cagcggtgag gggccaaggt gcccgggggca gagctcgggg ggctgaggca     240
gaatagagct gcctctgtgg ctcccttcac cctagacagg tccctccacg tcaggacttg     300
```

1503

```
tgacaggtcc tttcacgcca ggacttgctg caggaagagc gggcctcccc tcctctgcgt     360
ctctccacac tgagcagagg cctcggggag gagcgggcag aagagggagc cagcaagg       418
```

<210> 2555
<211> 448
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (35)...(435)
<223> similar to gi1488047 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2555
```
ccagcaggtg aagcactgtc gtcagtcccg gggcccaggc gggccccggc cagctttgag      60
ctctggccag gtgcaatgtg cccagagctt ccaggccggg caccactact gggaggtgcg     120
cgcgtcagac cactcggtga cactgggcgt ctcctacccg caactgccac ggtgcaggct     180
ggggccccac acagacaaca ttggccgggg accctgctcc tggggctct gcgtccagga      240
ggacagcctc caggcctggc acaacgggga agcccagcgc ctcccagggg tgtcagggcg     300
gctcctgggc atggatttgg acctggcctc aggctggctc acctttaca gcctggagcc      360
ccagacccag cccctgtaca ccttccatgc cctcttcaac cagcccctca ccccgtctt      420
                                                                       448
ctggctcctc gacccggaag ttgcggaa
```

<210> 2556
<211> 853
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (50)...(855)
<223> similar to gi309209 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2556
```
gaatccacgc gtcgtcccac gcgtccgcgg tggatgaagt gaacccaccg ccacttttct      60
tcctcccac gcagtgcgtg tcagcggggt gggtctggcc cgggctcact ttgagaagca     120
gccgccttcc aatctgcgga aatccaactt cttccacttc gtcctggccc tctacgacag     180
acagggccag cccgtggaga tcgagaggac agcgtttgtg gggttcgtgg agaaggaaaa     240
agaagccaac agcgaaaaga ccaataacgg aattcactac cggcttcagc ttctctacag     300
caatgggata aggacggagc aggatttcta cgtgcgcctc attgactcca tgacaaaaca     360
agccatagtg tatgaaggcc aagacaagaa cccagaaatg tgccgagtct tgctcacaca     420
```

1504

```
tgagatcatg tgcagccgct gttgtgacaa gaaaagctgt ggcaaccgaa atgagactcc    480
ctcagatcca gtgataattg acaggttctt cttgaaattt ttcctcaaat gtaaccaaaa    540
ttgcctaaag aatgcgggaa acccacgtga catgcggaga ttccaggtcg tggtgtctac    600
gacagtcaat gtggatggcc atgtcctggc agtctctgat aacatgtttg tccataataa    660
ttccaagcat gggcggaggg ctcggaggct tgacccctcg gaaggtacgc cctcttatct    720
ggaacatgca gctactccct gtatcaaagc catcagcccg agtgaaggat ggacgacggg    780
aggtgcgact gtgatcatca taggggacaa tttctttgat gggttacagg tcatattcgg    840
taccatgctg gtc                                                       853
```

        <210> 2557
        <211> 392
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (131)...(259)
        <223> similar to gi3327116 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 2557

```
gcgcccacgc gtccgggaga gctggagaaa caggaagcca gcctgtttgg caggaggcca     60
gaggtgtgtc cagtgggtga agtgtggctt tgggggaatg ctgacctaac cttactcgac    120
caacttctag ttctcaggtc ctagtgcgga gcagatgtgt aagacctact cggagttctg    180
cagccgccac agcaaggcct taaagctcta taaggagctg tacgcccgag acaaacgctt    240
ccagcaattc atccgggtga gcggacctct ccagatccca tgctcatggc ccaaacccac    300
cctccccaac tcatggggt agtgcctgtg agctgcaccc acatggaggt caggcattcg    360
ccacccgtgc agaccatcca tacacagatc ct                                  392
```

        <210> 2558
        <211> 881
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (707)...(817)
        <223> similar to gi1747316 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 2558

```
ttttacaatt caattttttt attcataagg ttgtacagcc aacatcactg tttaattcca     60
gaacattttc aacatctcaa aaagaaactc tgcacccatt agcagtcatt ccctgtagct    120
```

1505

```
tccctcatag gcaatggcaa ctgctgatct gctgaatagg aatcatataa tatgtgagga    180
aatgtttagt ttttaaagtt acacaggata attccaatgt gcagccagaa tacagaacca    240
ttattcatca gatggcatta ttaaggactc cgcctgcaat gagattttgt ggattattga    300
gtaagagcca agggacccTt cccCCtaggg ttttTggggc ctggatggct gtgtatttga    360
gggggagacc gaagccagta gaagtaatca gatgatccac tgcttagtgc agcagcagct    420
tctcccattg gtgtgggtgg gtaggccaca tgcctggaga aacacacccc ctcagagctc    480
tcatggctgt catgggggat gcagagggac aggcatagct cttgccctca aggtgtgtat    540
ggtctgtcag gaagatgaga aagtccatct gcattccttt tccccaccat gactcgggac    600
acgctcttgt ggtgcttttg tttgtcctct gtgattgaga aaccttgtcc ttgaggaggg    660
gggtttttgg actctggatc tggggttcat tgggcctttt tcctgcaggt ggcgggaaat    720
gttttttaaa gtgaagaaaa cagttgggga agctccagat ggaccagcca gtgcctactt    780
ggccgacacc acccatacct ccttgtacat ggtgaggccc caaggatggg tgtagaccag    840
cgcagggggt agaaacgatt tttcggacgc gtgggtcgac c                        881
```

<210> 2559
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (36)...(235)
<223> similar to gi34041 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2559
```
tcccgggtcg acgatttcgt gctgccgcca aggggggctt cagtggctgc tcagctgtgc    60
tctcaggggg cagctcatcc tccttccggg cagggagcaa agggctcagt gggggctttg   120
gcagccggag cctctacagc ctggggggtg tccggagcct caatgtggcc agtggcagcg   180
ggaagagtgg aggctatgga tttggccggg gccgattcca gctcactggg gatcc        235
```

<210> 2560
<211> 510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (27)...(510)
<223> similar to gi3868778 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2560

```
acccatggcc gcccacattc ccgggtcgag aatttaggga acgacaagct cgagagcgtg      60
actatgctga aattcaagat tttcatcgga catttggctg tgatgatgag ttaatgtatg     120
ggggagtttc ttcttatgaa ggttccatgg ctctcaacgc tagacctcag agcccacgag     180
aagggcatat gatggatgct ttgtatgccc aagtcaagaa gccgcggaat tccaaaccct     240
cacctgtaga cagtaacaga tcaactccta gcaatcatga tcggatacag cgtctgaggc     300
aagaatttca gcaagcaaag caagatgaag atgtagaaga tcgtcggcgg acctatagtt     360
ttgagcaacc ctggccgaac gcacggccgg cgacgcagag cgggcgacac tcggtgtccg    ·420
tggaggtgca gatgcagcgg cagcggcagg aggagcgcga gagctcccag caggcccagc     480
gccagtacag ctttctgcct cggcaaaggc                                      510
```

```
        <400> 2561
ccggaattcc cgggtcgaga ccaagagaat gatgtcgggg ataagcagtc ggctgtgaag   ·60
atgaagatgt ttgggaagct cacccgagac acgtttgagt ggcaccctga caagcttcta    120
tgtaagagat ttaatgtccc tgacccttat ccagattcaa ctttagttgg cttaccaaga    180
gtgaagcgtg acaagtactc agtcttcaac tttctgacgc tcccagagac agcttccttg    240
cccaccactc aagcatcaag tgaaaaagta tcacagcacc gaggtcccga caaatcaaga    300
aaaccatcca gatgggatac ctctaaacac gaaagaaag aagattccat tagtgaattt     360
ttaagtttgg ctagatcaaa agccgagcca cctaaacaac agtccagccc cttagtaaac    420
aaagaggaag agcatgcacc agaatcatcc gcaaatcaga cagtcaacaa agatgtggac    480
gcacaggctg aaggagaagg gagccgccca tccatggact tattcagggc catctttgcc    540
·agttcctcag atgaaaagtc ctcatcctcc gaggatgagc aaggtgacag tgaagatgat    600
caggcaggct ctggggaggc caacttccaa agctcccaag acactgactt gggggaaaca    660
tcatctgtgg ctcacgctct tgtgccagca ccccaggagc cgccaccttc cttcccgata    720
caaaagatgc agatagatga aagagaagag ttcggcccgc ggctgcctcc cgtcttctgc    780
cccaatgctc gtcagacact tgaggttcct caaaaagaga aacataaaaa gaacaaagac    840
aagcacaagg ccaagaaaga gcacaggcgg aagaaagaga agaaaagaa acacaggaag     900
cacaaacaca aaggcaaaaa aaaaa                                          925
```

```
                              1507
```

<222> (2)...(177)
<223> similar to gi1737490 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2562

```
cagatgggcg tctagatggg actatattct ggagtctatg cctcataccc acattcagtg    60
gtttagcatt atgaattccc tggtcattgt tctcttctta tctggaatgg tagctatgat   120
tatgttacgg acactgcaca aagatattgc tagatataat cagatggact ctacggtaag   180
tggaaacatt ttagtcttta gtctgccaag gacactgttt attgttattt tgcaaaaagg   240
taaaataata gctttagaat ctgcttttaa aacattcttc aaaaaacaaa aacaaaaaca   300
aaaaaattct tctcaaaagt tatcttgaat tcacattttc aaataagaaa gtgatactta   360
agaattaata ttcttggctg ggcgcggtgg ctcacacctg taatcccagc actttgggag   420
gccggggtgg gcggatcacc tgaggtcagg agttcaagac cagcctgacc aacatggtga   480
aaccccatct ctcctaaaaa cacaaaaatt agctgggtgt ggtggtgggg acctgtagcc   540
ccagctacct cgggaggctg aggcaggaga attgcttgaa cccaggaggc gg           592
```

<210> 2563
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)...(410)
<223> similar to gi34073 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2563

```
ccagggagaa cgaggggctc tggatgctga gttgaaggcc tgccgggacc aggaggagga    60
gtataagtcc aagtatgagg aggaggccca caggcgcgcc acacttgaga acgactttgt   120
ggtcctcaag aaggatgtgg atggggtttt cctgagcaag atggagttgg agggcaagct   180
ggaggctctg agagagtacc tctacttctt gaagcatctg aatgaagaag agctgggcca   240
gctccagacc caggccagcg acacgtctgt ggtgctgtcc atggacaaca accgctacct   300
ggacttcagc agcatcatca ctgaggtccg cgcccggtac gaggagatca cccggagcag   360
caaggctgag gctgaggcct tgtaccagat caagtaccag gaacttca              408
```

<210> 2564
<211> 1210
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

1508

<400> 2564
```
cagcggcgtc agagcgtgtc tcgcctgctg ctccccgttt tcctccttga gccccccgcc     60
gagccggggc tggagccgcc ccctgaggag gaaggaggag agccggcggg ggtcgcggag    120
gagccgggca gcggggggcc ctgctggctg cagctggagg aggtgccggg gcccgggcct    180
ctcggggggag gggggccccct gcgctccccct tcctcctact catctgacga gctgtcccca    240
ggcgagccct tgacttcgcc gccctgggcc cctctgggcg cccccgagcg gcccgagcat    300
cttctgaacc gggttctgga gcggcttgct ggaggggcta ccagggacag cgccgcctca    360
gatatcctgc tggatgacat tgtccttacc cattctctct tcctcccgac ggagaaattt    420
ctgcaggagc tacaccagta ctttgttcgg gcaggaggca tggagggccc tgaagggctg    480
ggccggaagc aagcctgtct agccatgctt ctccatttct tggacaccta ccaggggctg    540
cttcaagagg aagaggggggc cggccacatc atcaaggatc tatacctgct aattatgaag    600
gacgagtccc tttaccaggg cctccgagag gacactctga ggctgcacca gctggtggag    660
acggtggaac taaagattcc agaggagaac cagccaccca gcaagcaggt gaagccactc    720
ttccgccact tccgccggat agactcctgt ctgcagaccc gggtggcctt ccggggctct    780
gatgagatct tctgccgtgt atacatgcct gaccactctt atgtgaccat acgcagccgc    840
ctttcagcat ctgtgcagga cattctgggc tctgtgacgg agaaacttca atattcagag    900
gagcccgcgg ggcgtgagga ttccctcatc ctggtagctg tgtcctcctc tggagagaag    960
gtccttctcc agcccactga ggactgtgtt ttcaccgcac tgggcatcaa cagccacctg   1020
tttgcctgta ctcgggacag ctatgaggct ctggtgcccc tccccgagga gatccaggtc   1080
tccccctggag acacagagat ccaccgagtg gagcctgagg acgttgccaa ccacctaact   1140
gccttccact gggagctgtt ccgatgtgtg catgagctgg agttcgtgga ctacgtgttc   1200
cacggggagc                                                          1210
```

<210> 2565
<211> 438
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(441)

<400> 2565
```
agcgcagctt gcaggacgcg cagcgcctct tcttgatgag cgaggccgtg cagccggtga     60
caccccgagcc ctgtgtcacc caggacagcg tgcgcttctc acacctcgtg gtggacctgg    120
tgcaggctaa agacacgctc taccatgtac tctacattgg caccgagtcg ggcaccatcc    180
tgaaggcgct gtccacggcg agccgcagcc tccacggctg ctacctggag gagctgcacg    240
tgctgccccc cgggcgccgc gagcccctgc gcagcctgcg catcctgcac agcgcccgcg    300
cgctcttcgt ggggctgaga gacggcgtcc tgcgggtccc actggagagg tgcgccgcct    360
accgcagcca gggggcatgc ctgggggccc gggacccgta ctgtggctgg gacgggaagc    420
agcaacgttg cagcacac                                                   438
```

<210> 2566
<211> 566
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (79)...(558)
<223> similar to gi2088823 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2566
ggaattcccg ggtcgagact ctactccaat ccagacccgc acctgctgct gcgtcatctc   60
ggtctgggct cctttccctt caagacccgg aaggaactgc agagttggaa ggcagagaat   120
gaagccttca ccctggctga cctgaagcaa ctgccggagc tgaacccacc agtgctgatg   180
cccagaggga atgtggggac tcccctgcgg gtctttttgg agttgatccg ggcctgccgc   240
ctaccccctc ggatcatcac ccagctgcag ctccagttcc ccaagacagg ttcctcccgg   300
cgctacggca atgtgccttt tgagtatgag gactcagaga ctgtggagca ggaagagctt   360
gtgtatacag cagagggtga agaaataccc caaggaacct acctggcaga tataccagcc   420
agcccctgtg gagagcctga ggaagaagtg gggaaggaag aggaagaaga gtctcactca   480
gatgaggacg atgaccgggg tgaggaatgg gaacggcatg aagcgctgca tgaggacgtg   540
accgggcagg agcggaccac tgacct   566

<210> 2567
<211> 406
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(409)
<223> similar to gi5689409 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2567
cttccattga gcggttcccc atcagcttta aaacctactt ctcaggaaac tactttcacc   60
acgttgtgct ggggatttac tgcaatggcc gctatggctc attgggcatg agccgcaggg   120
ctgagctgat ggacaagcca ttgacttttc ggactctgag tgacctcatc tttgactttg   180
aggactctta caagaaatac ctgcacacag tcaagaaggt caagattggg ctgtacgtcc   240
cccatgagcc tcatagcttc cagcccattg agtggaagca gctggtcctc aacgtctcaa   300
agatgctgag ggctgacata aggaaggagc tggagaaata tgccagggac atgagaatga   360
agatcctgaa acctgcaagt gcccactctc cgacccaagt gagaag   406

<210> 2568
<211> 561
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (196)...(475)
<223> similar to gi217399 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2568
```
cccagaatga ccgggtcgac ccacgcgtcc gcacccagct atggaggcag ctgcaggaac      60
aacttgtttt accgagaaga aacctacact ccaaaagctg agacggacga gatgaatgag     120
gtggaaacgg ctcccattcc tgaagaaaac catgtttggc tccaaccgag ggtgatgaga     180
cccaccaagc ccaagaaaac ctctgcggtc aactacatga cccaagtcgt cagatgtgac     240
accaagatga aggacaggtg catagggtcc acgtgtaaca ggtaccagtg cccagcaggc     300
tgcctgaacc acaaggcgaa gatctttgga agtctgttct atgaaagctt cgctagcata     360
tgccgcgccg ccatccacta cgggatcctg gatgacaagg gaggcctggt ggatatcacc     420
aggaacggga aggtcccctt cttcgtgaag tctgagagac acggcgtgca gtccctcagg     480
taactactct gtgatcgggg ctctgtgaaa cggttttcct gtttatgacg gtgttgttga     540
aattttgaaa aataccacac a                                               561
```


<210> 2569
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(454)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3)...(114)
<223> similar to gi3219577 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2569
```
ntatccgtgc tgttggcaac tttaaggagc agacagtgat tgccgtcaag gcccctccgc      60
agacgagact ggaagtgccc gacaggaatg aggtgagagg ggaaatattt ggtggagagc     120
```

```
agggttgagaga   ccctgccagg   gagcgttcca   ggcggctctg   cagactctgt   ccctggcact      180
gcctagcccc   atgctttgca   ggcccattgt   ggtgtccatg   gcaatattgg   tggnnnnnnn      240
nnnnnnnnnn   nnnnnncaga   agctggaaag   ggcaacggag   actgagtagt   ggcctgagaa      300
aatctctgtt   cctggtttct   ttctgcatcc   caccagccct   gggttcctgc   gcacatgcac      360
actcatgccc   acgtatgacg   gtgacaatac   tcatgaaaat   cctttcatgc   tgaccgtgct      420
cggacgcgtg   ggtctacccg   gagttccggc   gag                                       453
```


<210> 2570
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (19)...(462)
<223> similar to gi1632766 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2570
```
gagtccggaa   ttcgcgtggt   agccaatgac   agagcagata   aaaatgctac   tgcctatttt       60
gagggtcatc   atttgaatgc   tgagaatgct   gctggtcacc   agattgcctc   cgaaacacag      120
atccttgagg   attcttcgtt   aatatctgta   aagtcacagt   gcagcacagg   tgatgctcat      180
acagtcctga   gtgagtctaa   cagaaaagat   gggcactgtg   gaaattctaa   caacaaatgt      240
gaagtaattc   cagaaagcac   cagtgcagta   acaaacattc   cacaggtgca   gatggttgcc      300
atacaggtat   cttggaacat   aacacaccaa   gaagtcaata   ctgagccata   taatcctttt      360
gagaaacaac   aaggggaaat   ttcacggatt   gaaaaggagt   accaagtatt   acaagaccaa      420
cttaaagaag   cgtatganaa   ttatgagcag   ataaaactta   ag                           462
```


<210> 2571
<211> 1528
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (909)...(1072)
<223> similar to gi35431 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

1512
```

```
        <400> 2571
cgggtccgcc agtagcattt ctgcagcaga tgtggggata ttcacagtaa gacggacacg      60
tccaagacca taaatagttg gttttgccac cacgtggatg tcaaaaacac cttgctgtgt     120
ggggccactt ggaggtggga acagtgggcg tgtggacctg tcctgctgtg actttggtta     180
acaccctgag gtggagtctg aaaaaccccg gtgtacacgg gctcaagaac cgctcccctt     240
tctgataccg gagcgcattt cccagtggaa ccccagagca gcaactcagg ttcttgctcg     300
cctgtgcggc tttgtgtgcg gcttgccgag ggcagaaacg gcagcttccg cccggagagc     360
agagatgtgg cgtggggctg agtgtggccc accggtaatc cagctgcatg cccccttccc     420
tgcctgcacc tgggcgccgc ctctgcacga tgaaggcggg catttggtgt ggtccttaca     480
gccgtgtgcc ccatcccact gatccttgcc tgcctgcaga aagctacagg attggctttg     540
cctttaagtg tcctgactgc cccggcctcc cttacctacc atgacacgcc gagagctgag     600
ctgtcccact cgtgactaac tcgccgttgc ctgcaacctg ctccgttgcc tgcctcacac     660
ccacccccgct gtgctgcctg caggcacccc ctttcatgag gacctgggct gtgcccaggc     720
ggccccctgt gttgctgggg cctgtgctgc tctcgcacgg cctccagagc ctccctcggc     780
cccttgaccc gcatgaaccg gcttcccctg gtgactcagt cccctcccgt cccttcctgg     840
acctcagcac aggccctggg gctggcaggt gagcaccgg cacccccgct aaccgcttgg     900
ccctgctgct tcaggcttac aagagtgcgt gcgacatggc cgaggcacga ggccgccacc     960
aggagctttg catccccctg tgtgtggtgc cggccacgat tagcaacaat gtcccaggca    1020
cagaaataag cctgggctcc gacactggcc tgaatgctgt tgttgaggta agagaacccc    1080
gtttcctctc gttgcttttc cgtcatttat tttagcaact tgtttcttct gtgctaagga    1140
tgagccggat ttattcttct tcttttctcc cctttgttag cttggcttta tgtcacactg    1200
gccagaacag ggtaaaattt ttttagcttc tctgccttag ggagagcctg tctttattga    1260
ttaaaagtga gatgatatat ccagtccttg ggatcgtgtt tctatcccac ctagactagg    1320
ggagccgcag gtaccattgc tctggaggct gcctctcctg cccacgctga gtagtgaggc    1380
tgcagggcca gctgtgggag cctgcaggaa ggggtgtaaa tgcccggtaa gtacgagctc    1440
caggacagag ccgtacccac tgggggccgc tgcctggaaa acagccttcc tggtgagaca    1500
agaggctctt tagagagccg aaatcact                                       1528
```



```
        <210> 2572
        <211> 1342
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2)...(252)
        <223> similar to gi3417297 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters
```



```
        <400> 2572
cttcacctat tcttccctcc tcctcagtca ccggcgcatt cactccgaca gccggccctt      60
cccctgcgtg gagtgtggga aaggcttcaa gcgcaagacc gccctggaag cccatcggtg     120
gatccaccgc tcctgcagcg agaggcgcgc gtggcagcag gccgtggtgg ggcgttcaga     180
gcccatccct gttttgggag gcaaggatcc cccagttcac ttccggcact ttccagatat     240
atttcaagag tgtgggtgat ggcgttcaca caaactggtc agcgtttccc tggagaggaa     300
gaggcaaggt ttgtgtattt gggggataag gaaaggaagt gggcgtttga ggaaaacaaa     360
gttcttgcct taaggtaaaa agcagaggtt aggggcacag agggctgttg gggaggaggc     420
aggaatcttg aaaaggtgcc tgggggttga ccccattttc tgaagctcca gcacacaggg     480
ccccgtgttc acgtcccatc cttcacttga aaaccattca cctaactggc ttttccttca     540
```

```
tgattgttct ctcccttgta gctctctgct tttttggcct gtatctctcc tactcctctg   600
agatggggtc ccctacattc cagtgcctat taaaggagcc tgcacccact ctggacccc    660
cagaatagag gggatacctc aggcctgtcc ctcggctggt gggggggggcg gagctcatcc   720
caggattctt ttcttttttt tgagatggag tcatgctctg tcgcccaggc tggagtgcag   780
tggcgtgatc tcggctcact gcaacctctg cctcctgggt tcaagccatt ctctgcctca   840
gccttcccat tagctgggat tacaggcatg cgccaccagg cccagctaat ttttgtgctg   900
ttagtagaga cggggttcca ccatcttggc caggctggtc ttgaattcct gacctcgtga   960
tccacccgcc tcggcgtctc aaagtgctgg gattacaagc gtgagccacc gaccctgcc   1020
gaggattctg cctttacca atgcaggtga aacatctggc aaggagacac ctggagtgta   1080
ggtgttcctt ggtcttgaag acctagaggt ggccatagag aggacagtgg cctcaggtgg   1140
ggaactcccc ccccactctc attctgcaag tgcacaaact atcaaacata gcggactctg   1200
gaactgggcc aactcttcac tgtatgcatt agtgattgca gtgttttttt cttcttcaga   1260
tatttgcatg ttccctggat tttgtatttt ttgataaaga tatattcttg ggccacagta   1320
gctggagata taatgccgga cc                                          1342


         <210> 2573
         <211> 597
         <212> DNA
         <213> Homo sapiens

         <220>
         <221> misc_feature
         <222> (213)...(576)
         <223> similar to gi2792500 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters


         <400> 2573
tactgggtcg acccacgcgt gcggtcagta ggacgatttt gttagggaaa acgctttcac   60
tgcgaaaaat gtgatctaga aaacattgtg cttgaaggat tggctttgtt tttgtgtggg   120
gaatttagtg cattttccat tctattggca tcattattaa atagtcgtaa atgtagagtt   180
attaaataat tgagcttttt tccattttgg tttactcagg attcactcct tctccagttg   240
cacagccaca cccttcagct ggccttaatg ttgactttga atctgtgttt ggaaataaat   300
ctacaaatgt tattgtagat tctgggggcg gacttctcaa accaacagtg gcctctcata   360
accagaacct tcctgatgcc aaactcccac ctagcaagct agcatctgat gactcgaatt   420
catctctccc caaccttgac cgcaatccca tcatcaacac cggtacccc cctaatgacc   480
tcacttctac gccaatgagc cacaaccaca acttcacaca accacatctc cacctccact   540
cactacacac acagatctcg acagcacctc ccacataacc caaaaccca taacccg      597


         <210> 2574
         <211> 441
         <212> DNA
         <213> Homo sapiens

         <220>
         <221> misc_feature
         <222> (66)...(360)
```

        <400> 2574
gggtcgcccc acgcgtccgg gtggataagc agaagatagt ggagggaatg gcagagggag   60
gcttcacaca gattaagtgc aacacagaca ttttcattgg cggagtcccc aattatgatg   120
atgtgaagaa gaactcgggt gtcctgaagc ctttcagcgg gagcatccag aagatcatcc   180
tgaatgaccg aaccatccat gtgaagcatg acttcacctc cggagtgaat gtggagaatg   240
cggcccaccc ctgtgtgaga gccccttgtg cccatggggg cagctgccgg cccaggaagg   300
agggctatga ctgtgactgc cccttgggct ttgaggggct tcactgccag aaaggtacgc   360
tcaggggtct gaggcacagc tccctggagg gagtggaagg aacggacagc caattggggg   420
accacaactc ttaatggaag a   441

        <210> 2575
        <211> 428
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (6)...(407)

        <400> 2575
cctgtttgaa gatgcccaaa gtggccctca agggccccca ggtggatgtc aagggcccca   60
agctggacct gaaaggcccc aaggcggatg tgatgacccc cgtcgtggag gtgtctctgc   120
ccagcatgga ggtggacgtc gaggccccgg gagccaagct ggacagtgtg cggctggagg   180
gtgacctgtc cctagccgac aaggacatga ctgccaaaga cagcaagttc aaaatgccca   240
agttcaagat gccgtcgttc ggggtgtctg ccccaggcaa gtccatcgag gcctcgttgg   300
atgtgtctgc gctgaaggtg gaggctgacg tgagcctccc ctccatgcag ggggacctga   360
agaccactca cctcagcatt cagcccccctt ccgctgatct ggaggtccag gctggccaag   420
aggatgtg   428

        <210> 2576
        <211> 428
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3)...(251)

Run with FASTXY 3.3t00, default parameters

<400> 2576

```
ttaacattca agttgatacc tatagttaca acaaccgcag caacaagcct gtgcaccggg      60
cctactgcca gatcaaggtc ttctgtgaca agggagctga gcggaaaatc agggatgaag     120
aacgaaagca aagcaaaaga aaagtttctg atgttaaagt gccactgctt ccctctcaca     180
agcgaatgga tatcacagtt ttcaaaccct tcattgatct cgatactcag cctgtcctct     240
tcattcctga cgtgcacttt gccaacttgc agcggggcac tcatgtcctt cccattgcct     300
ctgaagaatt ggagggtgaa ggctctgtct tgaaaagggg gccgtacggc acagaagatg     360
actttgctgt ccctccttct accaagctgg cccggataga agaaccaaag agagtgctgc     420
                                                                     428
tctacgtt
```

<210> 2577
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)...(438)
<223> similar to gi3882197 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2577

```
gagacgcaac cgcaggttcg acccacgcgt ccgcgtatcc gcactgctca ggggtatggg      60
gaggatgtca ggcaggacca gcagcagctc ctggagggga tctcagagct ggacatcagg     120
acaggggag tcccctcaca gctgcttgta catggagccc tggccttccc tctggggctg      180
gatgcctcac tcaactgctt cctggcggct gctcactatg gccggggccg ggtggtcctg     240
gctgcccacg agtgcctgct ctgtgctccc aagatggggc ccttcttgct caatgcggtg     300
cgctggctgg ccagaggcca gacaggcaaa gttggggtga acacaaatct aaaagatctg     360
tgtcctctcc tatcggagca tggcctgcaa tgcagcctgg agccccatct gaacagcgac     420
                                                                     440
ttgtgtgtct actgctgcaa
```

<210> 2578
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (125)...(289)
<223> similar to gi4929639 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2578

```
tgtgggctgg agcagggaag cccacccagg caggaggtgc ctctgtgccg gaggcccgag      60
tcccctgaac acctgcagga ggccaggcat cgcccacagc cctgccccct ggcctcttgg     120
caggaaaaag aatgagaagc tggagctgct ggtgggctgc attgcagagc tgcgggaggc     180
agatgagggg ctgctgaggg ccggtgagaa tgacttcagc atcatgtact caacccgcaa     240
gcggagtgct cagctgtggc tgggcccagc cgccttcatc aaccatggtg agggtcaggc     300
aggtggatgg gcaggacggg atagagccag gcagggctgg aggggtgtag tgggagggtt     360
ctgcgactga gctgccgagc tcatctacct ctcttctctc tcctgcccca actggctcca     420
ga                                                                    422
```

<210> 2579
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(370)
<223> similar to gi1118102 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2579

```
caaggaaagg gagcttattg aaagactaga ggatctcaaa gagcagctgg ctcccctgga      60
aaaggtacga attgagatta gcagaaaagc tgagaagagg accactttgg tgctatgggg     120
tggccttgcc tacatggcca cacagtttgg cattttggcc cggcttacct ggtgggaata     180
ttcctgggac atcatggagc cagtaacata cttcatcact tatggaagtg ccatggcaat     240
gtatgcatat tttgtaatga cacgccagga atatgtttat ccagaagcca gagacagaca     300
atacttacta tttttccata aaggagccaa aaagtcacgt tttgacctag agaaatacaa     360
tcaactcaag gatgcag                                                    377
```

<210> 2580
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (313)...(793)
<223> similar to gi3004482 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2580
```
attttttgatg ccatgtggct acattggttt tagaatacta ataaaatcca ttgctttttaa    60
aataaataaa taaacccccat agcacatcct ccatacaaca tctgttgtcc ctcaagatac   120
aattgttacc actatcatct aaccattatt ttatgataac tttaaaatat caacttggca    180
agaaaatatt ccacaaaaca cactctgcct ttttacttta aagagtcctt ggctacctgg    240
gccaatatta ttctcatttg taggatttag gttccacaga atataatatg tgccttttttc   300
tgtgttccct gcagatttgc aagtaccatc ccttttttggg gccttacttt gcacctccag    360
catctgggaa acaatgtttt cctgttgcag actctctttg gtgcagtcac cctcctggcc    420
aattgtgttg caccttgggc actgaatcac atgagccgtc gactaagcca gatgcttctc    480
atgttcctac tggcaacctg ccttctggcc atcatatttg tgcctcaaga aatgcagacc    540
ctgcgtgtgg ttttggcaac cctgggtgtg ggagctgctt ctcttggcat tacctgttct    600
actgcccaag aaaatgaact aattccttcc ataatcaggg gaagagctac tggaatcact    660
ggaaactttg ctaatattgg gggagccctg gcttccctcg tgatgatcct aagcatatat    720
tctcgacccc tgccctggat catctatgga gtctttgcca tcctctctgg ccttgttgtc    780
ctcctccttc cg                                                        792
```


<210> 2581
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(415)
<223> similar to gi4426629 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2581
```
atgacaatag cccagtgtgt gatcaggttg catatacagc attacttcct gaagacattc    60
catcaaataa aatcatcctg aaagtcagtg caaaggatgc tgatattgga tccaatggat   120
atataccata ctcactctat ggatctggaa acagtgaatt ttttctagat ccagaaagtg    180
gcgagttaaa aaccttggct ctgttggacc gggagaggat ccccgtgtac agcctgatgg    240
ccaaggccac tgacgggggt ggcaggttct gccagtccaa catccaccta atcctggagg    300
atgtgaatga taacccccct gtgtttttctt ctgaccacta caacacctgt gtctatgaga    360
acacaaccac caaggctctg ttgaccagag ttcaagccgt ggaccccgac attgg         415
```


<210> 2582
<211> 348
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(342)

<400> 2582
```
accagccatt gctgattcac aggcccagtg agagacagga taatcatggg atgctgctaa      60
aaggggaaat cctgctgctg cctgagcttt cttttatgac cggaatccca gagaagatga     120
agaaggactt cagagccatg aaggatttgg ctcagcaaat caatctgagc cccaagcaac     180
accatagtgc tttggaatgc ttgctgcaaa gaattgcaaa gaacgaggca gccaccaatg     240
aactgatgcg ttgggggctc cgtctgcaaa aggatgtaca taagattgaa ggacgtgttc     300
tgccaatgga aagaattaac ttaaaaaata cttcgtttat cacatctc                 348
```


<210> 2583
<211> 849
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(850)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1)...(628)

<400> 2583
```
tgtggatttt caggaacatc catgactgat tactgggttt tgatcttctt caacctcctc      60
ttcacatctg cccctcctgt catttatggt gttttggaga aagatgtgtc tgcagagacc     120
ctcatgcaac tgcctgaact ttacaaaagt ggtcagaaat cagaggcata cttaccccat     180
accttctgga tcaccttatt ggatgctttt tatcaaagcc tggtctgctt ctttgtgcct     240
tattttacct accagggctc agatactgac atctttgcat ttggaaaccc cctgaacaca     300
gccgctctgt tcatcattct cctccatctg gtcattgaaa gcaagagttt gacttggatt     360
cacttgctgg tcatcattgg tagcatcttg tcttattttt tatttgccat agttttttgga    420
gccatgtgtg taacttgcaa cccaccatcc aacccttact ggattatgca ggagcacatg     480
ctggatccag tattctactt agtttgtatc ctcacgacat ccattgctct tctgcccagg     540
tttgtataca gagttcttca gggatccctg tttccatctc caattctgag agctaagcac     600
tttgacagac taactccaga ggagaggact aaagctctca aggaagtggg agaggggggct    660
gggaaagatg gaatcaagtg gacatcaaag tatggttaac cattcaggtg ggcaagttca     720
gggaggagga ccctggctgg gcctttttgt tgtattttgc attgaagtca ggcagttccn     780
tgtttttgag gcagggaatt ttcctgtgtg gaantgttta gtcaggtatt tgnaattagg     840
cnttaggtg                                                             849
```

<210> 2584
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(150)
<223> similar to gi951098 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2584
```
tctacactca gctagctgcc aaatcaaagt ttttaagcct aaaggtgcag acaggaaaca      60
aaaaactgac cgagagaaga tggagaagag aacagctcat gaaaaagaaa agtatcagcc     120
gtcctatgat accacaatcc tcacagaggt aatgtagtaa agcatttggt tttggaagag     180
aagcaaaggt tgcatattag tctatttcta agatgagttc tgctacaaaa gggttgggga     240
agattgggtg gcagtttgac atgttattct ctgagaaatt tctggggaaa atatttaaat     300
ttggggattt tgatagactg tttcctgggt gggatcttaa atgaagatgc tgaaatccca     360
atgaggtctt agaaacagac cttaaaaact ttgaagttgg caagagactt aagttggagc     420
ctagaaagtc caatttttgt cactgctggg gttttgcatt ttttttaact ttgaatcctg     480
ttagtcatgc atttgtttaa ttggactgaa gagacatgaa acagggtgtt agatctttct     540
ttgtataatg aaaagacatt gatcccaatc tttggtgttt gtccagatga ggcttgagcc     600
tataattgaa gatgcagttg aa                                             622
```

<210> 2585
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(254)
<223> similar to gi1651471 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2585
```
ttgagcaaat tttattgctg gcgtttggtc gcaaagccgc tgaagagatg gacgagcgga      60
ttcgcgagcg gttacattca gaagacattg ccgcacgcac gtttcatgcg ctggcgctgc     120
atattattca gcagggcagc aaaaaagttc cgatagtcag caaactggaa aatgatcccg     180
ctgcccgtca tgaactcttt attgctgagt ggcgcaagca atgcagcgaa aagaaagcgc     240
aggcgaaggg cgccagccct tcaaactgtc cttcgttgtg tttatagggg aagagt         296
```

```
<210> 2586
<211> 352
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (89)...(240)
<223> similar to gi3021409 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters



<400> 2586
aaagaggctt cttgattgtg ctgttcattg ttgtaaatcc atggagctgt gcaacagtga      60
gtaactccag atgtcctccc tccctactgc agcccctgcc cttgatgtgg actggcagag     120
cagcacgacc tttgcctcct gtagcacaga catgtgtatc catgtgtgca ggctcggctg     180
tgaccgccca gtcaaaacct tccagggaca cacagtaagt gagagctctt gtcactggtc     240
tcgagtttgt gagaatgtga tgtgggagcc gattcttgtg tgcctagaat taaaagctac     300
tgcagcagca gaccagctct aatgtgcccc ttggctattt gagctgtcat gg             352




<210> 2587
<211> 543
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (107)...(545)
<223> similar to gi3395782 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters



<400> 2587
gtagtcatct tagttgtctc caattgtgcc aagcccagtg cctcaaatat agtaatcatt      60
gatgaatgct ttttgttaaa atttgaaaca aatttttggt tttgtcttta agaccgatgt     120
tgttgtcaac tccgttccct tggatctcgt gcttagtaga gggcctcttt ctaagtccct     180
cttggaaaaa gctggaccag agcttcagga ggaattggac acagttggac aaggggtggc     240
tgtcagcatg ggcacagtgc tcaaaaccag cagctggaat ctggactgtc gctatgtgct     300
tcacgtggta gctccggagt ggagaaatgg tagcacatct tcactcaaga taatggaaga     360
cataatcaga gaatgtatgg agatcactga gagcttgtcc ttaaaatcaa ttgcatttcc     420
agcaatagga acaggaaact tgggatttcc taaaaacata ttcgctgaat taatcatttc     480
agaggtgttc aaatttagta gcaagaatca gctgaaaact ttacaagagg ttcactttct     540
gct                                                                   543




<210> 2588
```

1521

<211> 546
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (248)...(374)
<223> similar to gi640037 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2588
```
aaggaaggca ggaaagagga tatatagacc cttggggaaa aagcaagtta tcaattagaa      60
tagtgcaaaa ttctcaagag attctgagta aagcagttgg gattagttga cagggcttct     120
taggaaagaa ttattaaaca tgttggaatg aaagcaggga gggactcagt tggcagagtg     180
ggatgtaggg attgtccact aggcagaaac acagccttca taataatctt catggcttcc     240
tgcagcattt gcccctattc cctttggagg aatctatctg cctttggagg tcccagccag     300
ccagtgtcac cgctcccccc tggtgctcgc ctatgatcag gcccactttt ctgcactcgt     360
gtccatggag cagaaggaga ataccaagga acaaggtgct gaatgacatg tcttttggtc     420
tgcattattt tcacttgaaa aaattgaatg agatctaatg taggaggaaa gaattaagtg     480
acatgcaagc ccagacagca catgttgata ctgttttatt aagccagaag ttacgccaga     540
gttttc                                                                546
```


<210> 2589
<211> 512
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (199)...(513)
<223> similar to gi3876654 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2589
```
ggcttgttta accaggataa ggaggtaggg gccatagaac tggagctgat tcctgccagg      60
ccgtttttcca gcagcgagct gcagagggac aacccccgcca cggggcaaca gaacgcggat   120
gagggcagcg aaaggccacc cagagcgcag tggagagtgg actcaaacgg ggcacccaag     180
acgatcgcag actcggccac gagccccaag ctcctctatg tggatagagt tgttcaggaa     240
attctggaaa ccgaaaggac ttatgtacaa gatttaaaaa gcatcgtaga ggattacctt     300
gactgcatca gggaccaaac aaaaacttccc ctggggaccg aagaaagatc agccctttt     360
ggaaacatac aggatatcta ccacttcaat agtgaacttc tgcaagattt ggaaaactgt     420
gaaaatgatc ctgtggccat agcagagtgt tttgtgtcca agagtgaaga gttccacatt     480
tatacccagt attgcactaa ctatccaagg cg                                   512
```


1522

```
<210> 2590
<211> 401
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (80)...(391)
<223> similar to gi2662089 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



      <400> 2590
cgagagtggg aatgtatccc aggagtccgg ccccacctat gcctcattct ctcaccattt      60
catcagtgat gcaatgacag gtgtgcccac tgagaatgat gacttttgca ttcttttttgc    120
accaaaagca gccatgcagg agaaggaaga agaaccagtt ataaaaatca tggttgatga     180
tgcaattgtg ataagagaca attatttcag tctgcccgtt aataagaccg atacgagcaa     240
agcccccctta cactttccca ttcctgtgat tcgctatgtg gtgaaggagg tctctcttgt    300
ctggcatctt tatggaggaa aggattttgg aacagtccct cccacttctc cggctaaaag     360
ttatattagt ccccacagtt cgccttctca cacacccacg a                        401




      <210> 2591
<211> 501
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(75)
<223> similar to gi3449296 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



      <400> 2591
tccacagtga ctactgcagc cagaacacat gcctcaatgg tgggaagtgc tcatggaccc      60
acggggcagg tgagggctgg ggtgccaggc tgaacccagg gtttatccca gaaggctctt     120
caggtgggaa aggcatgtca gggtggagat ctcagagcct cctggttcca aatttctctc     180
tcttccccta acttgtgagt aacaggttgg aatctgcaat atctagacta ggggaagcca     240
ggagtcttcc ttccctctca acaaaaacta tctttctact tctgggggga tgagggagga     300
tatgaatggg gacctcaggg gcagagggtt gaattaatca cataccttag tgtcatcact     360
ggtctatgca cagtctcctt ctcattcccc tttaacttat attccactcc cttcccccttc    420
cctaacacta gaggcaaaca tttccagttt ttgaatgagc tctcgcaaaa tacatgttgt     480
ttttcatatg cttgaatttc c                                              501
```

<210> 2592
<211> 632
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (180)...(401)
<223> similar to gi2623162 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
        <400> 2592
gtactttaaa ggggagggtt cccccctttt tcctttcctt cctttttttt tggggtactg       60
attttagaaa cagtattaag caccttgttg ttttgtttct gttttcaagg aatgcagatt      120
ctactaagat ctccttgcaa aatgaatgca tttaattttc cctatgtgtt tttcctctgc      180
aggtagtttt cccaagagtg gctcaggttt gtaagaatga tatgggagga tctcaaagag      240
tcctggagaa acagtggacg tcgttcctga aggcgcgctt gaactgctca gttcctggag      300
actctcattt ttatttcaac attctccagg cagttacaga tgtgattcgt atcaacgggc      360
gtgatgttgt cctggcaacg ttttctacac cttataacag gtaatcatgc cctagctgtg      420
ttgacctcat caattcttcc tggcttcctt ctcccagggg gttctcttct aataaaccat      480
atttgcaact gactgaaaat tgcattcatt gtgtgtagct aagaagcact taacacttag      540
ttttcatcaa caaattaaaa gtagtttata agcactatta agttaggttt taggggaagt      600
aattagataa attatgacaa tatcttctat tt                                    632
```

<210> 2593
<211> 1047
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)...(569)
<223> similar to gi540271 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
        <400> 2593
ggtcttggtt tcaagggatc atatgaaaag tgcccagcag ttcttccagt tggtgggagg       60
atcagctagt gaatgtgata caataccagg gaggcagtgc atggcttcct gtttcttcct      120
gcttaagcaa tttgatgatg ttttgattta cctcaactca tttaagagcc acttctataa      180
tgatgacatc tttaacttta attatgccca agccaaagct gcaacaggca ataccagtga      240
gggcgaagag gcgttcctct tgatccaaag tgagaagatg aaaaatgatt acatttacct      300
cagctggtta gctcggggct atattatgaa taagaaacca agactagcct gggaacttta      360
tcttaagatg gaaacctccg gcgagtcctt cagtctctta cagctcattg ctaatgactg      420
ctacaagatg ggccagtttt actattctgc caaagctttt gatgtccttg agaggctgga      480
tcctaaccct gaatattggg aaggcaaacg gggtgcctgt gtgggcattt tccagatgat      540
catagctggg agagaaccca aagagaccct tcgagaagtg ctccatttac tgagaagcac      600
aggtaacacc caagtagaat acatgatccg gatcatgaag aaatgggcca agaaaacag       660
```

1524

```
agtgtccatc ctaaaatagc gccagtgcac taggaaccag cttctacttt gacataaaac    720
tggaaatcat tttcactcca gctttaatct gtgatacagg gctctgtttt attgacattt    780
tccttccttg ctctttaagc ctcaaggtca gagactgact tgctgagact tagtctcctg    840
gctgaacaga gtgccatagt ctgtgaccct gtatgatcct agtagcaata agattttgga    900
cttatctggt gcctttcttc caaaaatgct cagagtactt ttatgcaatt tactgacttt    960
aaggaaaaca gtataacttt tttttgttag cattttatgg cattgtctcc tggctgcaat   1020
aacaaacatc tttgatgttc aagaatc                                       1047
```

<210> 2594
<211> 420
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (189)...(300)
<223> similar to gi178646 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2594
```
gaactctcca agccctagga ggaggggcat gcaggttgct aggaggaaga gcagcggggt     60
gagggtaggg tgcccagggc tgcagacaaa gtgagcttca cccagtctca ccttgcacac    120
cacggcctta gcattttagt aagctccatg cttacatcct gaagactgtc cccagcccca    180
tttctgccgc tgttacagga ggaacagacc aagcccagtg ggaagacata acaggaacca    240
ccaaacttgt atatgccaac gagtgcgcca acttcaccac caatgtctct gccaggtgag    300
acgaggccag cccagcccag tattgtgtgg gccgtcctca ggctctatgc tgccgtccag    360
gcctgaggct gaggctccct cactgtcccc tccatgtgga agcctccgtg accacaggtg    420
```

<210> 2595
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (227)...(359)
<223> similar to gi3329465 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2595
```
cagaacagtc tttttaaaaa tgaatacctg attttagctt tcctttgtta aagctctcca     60
atggtacacc tttgtaacta gactaaaatc tacaactacg ggcccttgcc tctttctcac    120
ctccttttct gccacttttta acctttgttt actttaaccc actgacactg gttttactct    180
```

```
tgattctcaa acatggaaaa acagatagat gtttttctttc tcttaacaga attgtgaaaa      240
attgggtgag ctgctgttat gtgaggctca gtgctgtggg gctttccacc tggagtgcct      300
tggattgact gaaatgccaa gaggaaaatt tatctgcaat gaatgtcgca caggtaaaag      360
agatatcgg                                                             369
```

```
        <210> 2596
        <211> 432
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (330)...(429)
        <223> similar to gi4826454 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2596
ggcccctagt ccaaggccct ggccacccttt cacagctgcc accacagagg gaaaggaaac       60
aatgtcattt aaccttcata gcagctttgg taataggaac agcagcggcc acagcaaaca      120
tttactgagc caagtccatt aagccctaca tgtgcgttac cggcatggtc tctggattga      180
tgattcttct gttacttcct actgtggagg ataaggccct ctgtagtgcc ttttaccaaa      240
gaccaaagct gcatgcccac catgtatcaa gttcagtaac ccccttcttc tagagaatgc      300
atgtggaccc tgtggggtgg attctgacca ctgagtgttt ccaggttcca cagcagaaag      360
ccatggcacc acttcatccc catcctgccg gaatgagaat caatgttgtc aataaccacc      420
aggccgtgta tt                                                         432
```

```
        <210> 2597
        <211> 404
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3)...(395)
        <223> similar to gi5824570 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2597
aagaaatggt ggcattactt cttggtcaag gagcaaatat caatgcacag acagaagaaa       60
ctcaagaaac tgccttgact ctggcttgct gtggaggctt tctggaagtg gcagactttc      120
taattaaggc aggagccgat atagaactag ggtgttctac ccctttaatg gaagctgctc      180
aagagggtca tttggagtta gttaaatact tattagctgc aggagctaac gttcatgcaa      240
caacagcaac aggggataca gcactaacat atgcctgtga aaatggtcat actgatgtag      300
```

```
cagatgtctt acttcaggca ggcgcagatc tggaacatga atctgaaggt ggaagaactc    360
ctttaatgaa agctgcaaga gctggtcatg tttgtactgt tcag                     404




        <210> 2598
        <211> 2821
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3)...(2440)
        <223> similar to gi3255965 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




        <400> 2598
aagagatcag tgccactcag atcatcgtct gcacccccga gaagtgggac atcatcaccc    60
gcaagggtgg tgagcgcacc tacacccagc tggtgcggct catcattctg gatgagattc   120
atcttctcca cgatgacaga ggtcctgtct tagaagcttt agtggccagg gccatccgaa   180
acattgagat gacccaagag gatgtccgac tcattggtct cagtgccacc ctacccaact   240
atgaagatgt agccaccttt ctacgtgttg accctgccaa gggtctcttt tactttgaca   300
acagcttccg tccagtgcct ctggaacaga catatgtggg tatcacagag aaaaaagcta   360
tcaagcgttt ccagatcatg aatgaaatcg tctatgaaaa aatcatggaa catgctggaa   420
aaaatcaggt gctggtgttt gtccactccc ggaaggagac tggaaagaca gccagggcca   480
tccgggacat gtgcctagaa aaggacactc tgggtctgtt tctgagggag ggctcagcct   540
ccacagaagt cctgcgaaca gaagctgagc agtgcaagaa cctagagctg aaggatcttc   600
tgccttatgg ctttgctatt catcacgcag gcatgaccag ggttgaccga acactcgtgg   660
aggatctttt tgctgataaa catattcagg ttttagtttc cacagcaact ctagcttggg   720
gtgtgaatct ccctgcacat acagtcatca tcaaaggcac ccaggtgtac agtccagaga   780
agggggcgttg gacagaactg ggagcactgg acattctgca gatgctggga cgtgccggaa   840
gaccccagta tgacaccaag ggtgaaggca tactcatcac atctcatggg gagctacagt   900
actacctgtc cctcctcaat caacaacttc ctattgaaag ccagatggtt tcaaagcttc   960
ctgacatgct caatgcagaa atcgtgctag gaaatgtcca gaatgccaag gatgcggtga  1020
actggctggg ctatgcctac ctctatatcc gaatgctgcg atccccaacc ctctatggca  1080
tctctcatga tgacctcaag ggagatcccc tgctggacca gcgccgacta gatctggttc  1140
atacagctgc cctgatgctg gacaagaaca atctggtcaa gtacgacaag aagacgggca  1200
acttccaggt gacagaactg ggccgtatag ccagccacta ctacatcacc aatgatacag  1260
tgcagactta caaccagctg ctgaagccca ccctgagtga gattgagctt ttcagggtct  1320
tctcattgtc ctctgagttc aagaacatca cagtgagaga ggaggagaag ctggagctgc  1380
agaagttgct ggagagggtg cctatccctg taaaggagag cattgaggaa cccagtgcta  1440
agatcaacgt tcttctgcaa gccttcatct cacagctgaa attggagggc tttgcactga  1500
tggctgacat ggtgtatgtc acacagtcgg ctggccggtt gatgcgagcg atatttgaaa  1560
ttgtcctgaa ccgaggttgg gcacagctta cagacaagac cctgaacctc tgcaagatga  1620
tcgacaaacg catgtggcag tccatgtgtc ctctgcgcca gttccggaaa ctccctgagg  1680
aagtagtgaa gaagattgag aagaagaatt tcccctttga gcgtctgtac gacctgaatc  1740
ataatgagat tggggagctt atccgcatgc caaagatggg gaagaccatc cacaaatatg  1800
tccatctgtt tcccaagctg gagttgtcag tgcacctgca gcctatcaca cgctccaccc  1860
tgaaggtgga gctgaccatc acgccagact tccagtggga tgaaaaggtg catggttcat  1920
ccgaggcttt ttggattctg gtggaggatg tggacagcga ggtgattctg caccatgagt  1980
attttctcct caaggccaag tacgcccagg acgagcacct cattacattc ttcgtgcctg  2040
tctttgaacc gctgcccccct cagtacttca tccgagtggt gtctgaccgc tggctctctt  2100
```

```
gtgagaccca gctgcctgtc tccttccggc acctgatctt gccggagaag tacccccctc    2160
caaccgaact tttggacctg cagcccttgc ccgtgtctgc tctgagaaac agtgcctttg    2220
agagtcttta ccaagataaa tttcctttct tcaatcccat ccagacccag gtgtttaaca    2280
ctgtatacaa cagtgacgac aacgtgtttg tggggggcccc cacgggcagc gggaagacta    2340
tttgtgcaga gtttgccatc ctgcgaatgc tgctgcagag ctcggagggg cgctgtgtgt    2400
acatcacccc catggaggcc ctggcagagc aggtatgacg tggcgctgtg tcatgtgaat    2460
ttcccaagaa gcatttcatc tgtgattccg tatgaaggct ttctaagccc tgaaatttgc    2520
agggtcattt cctcagtttg tgtattaaag aaaagctgcc ccagccaagc gtggtggctc    2580
acgcctgtaa tcccagcact ttgggaggcc gaggcgggca gaactcctga cctcaggtga    2640
tccgcccacc tcagcctctc agaagtgctg ggattatagg cctcagtgag ccactatgcc    2700
cagccaaggg aattctttag catcttgaaa caatgacata aaattgcttt atgtgccaat    2760
gtctaggttc ctttaactag attgttaatt gagaatttct tttataaact tactgccttt    2820
t                                                                    2821
```

<210> 2599
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (27)...(377)
<223> similar to gi3983152 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
<400> 2599
aaaaggaact ccagcaactt ttattttcag tcccaccagg atatttgcga tatactccag      60
agtcactctg gagggacctg atctcagagc acagaggact agaggagtta ataaataagc     120
aaatgcgacc tttctttcgg ggaattttga tcttctctag aagttgggct gtggacctga     180
acttgcagga gaagccagga gtcatctgtg atgctctgct gatagcacag aacagcaccc     240
ccattctcta caccattctc agggagcagg atgcagaggg ccaggactac tgcacttgca     300
ctgcctttac tttgaagcag aagctagtga acatgggggg ctacaccggg aaggtgtgtg     360
tcagggccaa ggtcctctgc atgagtcctg agagcagcgc agaggccttg gaggctgcag     420
tgtct                                                                  425
```

<210> 2600
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(210)
<223> similar to gi4530437 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

1528

```
      <400> 2600
ctttaaaagt ttctgatgaa ttagtgcagc aatatcaaat taaaaaccag tgtctttcag        60
caatagcatc tgatgcagaa caagaaccta aaattgatcc atatgcattt gttgaaggag       120
atgaggaatt ccttttttcct gataaaaaag atagacaaaa tagtgagaga gaagctggaa      180
aaaaacacaa ggtaagagaa atcacagtac accaaagggt cactgttgat tttgtagcac       240
tgcatatagt aacactctta ctaccacagt tatctcactt cttttgtctt agaatagaaa       300
gagtaatcat ttatttagaa aaacctattt ttgcccggct gcggtggctc atgcctg         357


      <210> 2601
      <211> 540
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (429)...(543)
      <223> similar to gi436218 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters


      <400> 2601
accattgaga gttttaataa tacgtaacta cagaaaatgg agaaccaaaa ttattgtctg        60
taaacaggtg accttaaaat atagagaagg aagcaaagtt actaaaccta aatagttgcg       120
ggcctgcgct caaagccagg cctttgttaa tacttttaac aaagtattct ttgttaaaag       180
agagattagc agatacaagt gttaacatca aacccagact tctgagtctg aaaaagagct       240
ggccggggaa tgccctcctc ataccccaag cccgactgca acgcagtgac tctgggaagc       300
aacccagcct tcactctagt tgttttgtcc ccgcatcctg tgctggggta tggattctct       360
ggcctcctct aagggcagaa gcttgaggct ttgcctgcac gcttgggtaa ctgtaaacat       420
catcttcagg cataaaccat gggcctgtga ttgctggagt gattggggcc cgaaaacctc       480
agtatgacat ctggggaaac actgtcaatg tggccagccg aatggaaagc actggagaac       540


      <210> 2602
      <211> 397
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (4)...(398)
      <223> similar to gi2065210 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters
```

<400> 2602
```
cccattcctt ggagtggtca gccagctacc tggtggcagg ttgattatat tggacctctt      60
ccatcatggg aagggcagag gtttgtcctc actggaatag acacttactt tagatatggg     120
tttgcctatc ctgcatgcaa tgcttctgtg aagactacca tccatggact cacagaatgc     180
cttgtccacc atcatggtgt tccacacagc attgcctctg accaaggcac tcactttatg     240
gctaaagaag tgtggcaggg ggctcatgct catggaattc actggtctta ccatgttccc     300
catcatcctg aagcagctgg gttgacagaa tggtggaatg gcctttgaa gtcacaatta      360
caacaccaac taggtggcaa tactttgcag ggctggg                              397
```

<210> 2603
<211> 579
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)...(229)
<223> similar to gi1364263 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2603
```
ctgtcctctt cagcctcagt caacagctgt gctgtgaacc cttgtcttca caatggcgaa      60
tgcgtcgcag acaacaccag ccgtggctac cactgcaggt gcccgccttc ctggcaaggg     120
gatgattgca gtgtggatgt gaatgagtgc ctgtcgaacc cctgcccatc cacagccacg     180
tgcaacaata ctcagggatc ctttatctgc aaatgcccgg ttgggtacca gttggaaaaa     240
gggatatgca atttggttag aaccttcgtg acagagttta aattaaagag aacttttctt     300
aatacaactg tggaaaaaca ttcagaccta caagaagttg aaaatgagat caccaaaacg     360
ttaaatatgt gtttttcagc gttacctagt tacatccgat ctacagttca cgcctctagg     420
gagtccaacg cggtggtgat ctcactgcaa acaacctttt ccctggcctc caatgtgacg     480
ctatttgacc tggctgatag gatgcagaaa tgtgtcaact cctgcaagtc ctctgctgag     540
gtctgccagc tcttgggatc tcagaggcgg atctttaga                            579
```

<210> 2604
<211> 1036
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (78)...(730)
<223> similar to gi3874766 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2604

```
aaaagaaaga tgtggcccaa agcctagaga actatacgtc caagtgtcct gggaccatgg    60
agcccatcgc cctccctggc ggcctcaccc tgccaccggt gcccttcacc aagcttccca   120
tcgtcaggca tgtgaaacta ttgaaccttc ctgctagcct ccggccacac aaaatgaaaa   180
gcttgctggg tcagaacgtg tcaaccaaaa gtcctttcat ctattcacca attatcgcac   240
acaaccgtgg agaagagcgg aacaagaaaa tagatttcca gtgggttcaa ggagatgtgt   300
gtgaagttca gctgatggta tataacccaa tgccgtttga acttcgagtt gaaaacatgg   360
ggctgctcac cagcggagtg gagttcgagt ctctccctgc ggcgctttct cttccggctg   420
aatctggtct gtacccagtg acgctcgtcg gggtcccgca gacgactgga acgattactg   480
tgaacggtta ccataccacg gtcttcggtg tgttcagtga ctgtttgctg gataacctgc   540
cgggaataaa aaccagtggc tccacagtgg aagtcattcc cgcgttgcca agactgcaga   600
tcagcacctc tctgcccaga tctgcacatt cattgcaacc ttcttctggt gatgaaatat   660
ctactaatgt atctgtccag ctttacaatg gagaaagtca gcaactaatc attaaattgg   720
aaaatattgg aatggaacca ttggagaaac tggaggtcac ctcgaaagtt ctcaccacta   780
aagaaaaatt gtatggcgac ttcttgagct ggaagctaga ggaaaccctt gcccagttcc   840
ctttgcagcc tgggaaggtg gccacgttca caatcaacat caaagtgaag ctggatttct   900
cctgccagga gaatctcctg caggatctca gtgatgatgg aatcagtgtg agtggctttc   960
ccctgtccag tccttttcgg caggtcgttc ggccccgagt ggagggcaaa cctgtgaacc  1020
cacccgagca tgtatt                                                   1036
```

<210> 2605
<211> 399
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(377)
<223> similar to gi214636 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2605

```
ctgggtgata aaagtgcaga tggtgcagct gcatattgca aaaccccgcc tggatgacta    60
ctattaccag gaatattacc agaagctaga gaagaagcag gcagacgaag agctacttgg   120
acgaagaaac cgggttgagt ccctcaagct ggtaacgcct tacattccga aggcagaggc   180
ttatgagtcc gtggtccgaa tcgagggttc cctgggccag gtagctgtgt cgacatgctt   240
cagccctcgc cgagctattg atgcggtacc ccatggaact caagagcagg atatagaagc   300
tgcaagcagt cagaggcttc gggtattata ccggattgag aagatgttcc ttcagttact   360
agaaatagag gaaggctgga agtataggcc tccaccgcc                          399
```

<210> 2606
<211> 670
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (22)...(299)
<223> similar to gi1685051 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters

<400> 2606
gcaatgaaaa gatagggggag tgggtgcagt gtttgtttgg caggcccagg ctggtcaggg   60
acagggtttg accctctggc tttgtcctca gatgtgaatg aatgcacctc cggacaaaac   120
ccgtgccaca gctccaccca ctgcctcaac aacgtgggca gctatcagtg ccgctgccgc   180
ccgggctggc aaccgattcc ggggtccccc aatggcccaa acaataccgt ctgtgaaggt   240
cgagagctca gatcccacgt ttctagcgac ccacaaacat ctgatcacat gttcaacggc   300
gcccacacaa accaagcaga atgagcgctg gaggcacctg gctgtgccag gcgttcgttc   360
attcttctga ggctagatga gaaaagagca agggtcctcc ggaaggagct ggggtactga   420
gggggggaggc tcaggggggac cccaggcaac agctgatgac tcactgggag gaaggcgttt   480
caccatattc ataacctgct catctgcacg gggcccacct gctgtgccca ggcctctcca   540
cgcttccata acccagcgtc caccactcca agggggggcac taatgccagg aggaatgagc   600
tgggggcaca gacaggagac aggaccctct ccaggctggg acaggacctg accccccttct   660
tcctgtcctc   670

<210> 2607
<211> 563
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(564)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1)...(563)
<223> similar to gi3790389 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters

<400> 2607
gctgatgaca ccttacactt atggaattta cgtcagaaga ggcctgccat actacattcg   60
cttaaatttt gcagagaaag ggttacattt tgccatctgc ctttccagag taagtggctc   120
tatgtgggca ctgaacgagg taatatacat attgtcaatg tggagtcctt cacactctca   180
ggctacgtca ttatgtggaa taaagccatt gaactgtcat ctaaatctca cccaggacct   240
gtggtccata taagtgataa tccaatggac gagggaaagc ttttgattgg ctttgaatct   300
ggaacagtag tttttatggga cctcaaatca aagaaagccg actacagata cacatatgat   360
gaggctatcc actctgttgc ttggcatcat gaaggaaaac aatttatttg cagtcattca   420
gatggcacct tgactatatg gaatgtaagg tcccctgcta aaccagtaca gacaatcact   480
ccacatggaa aacagttaaa ggatgggaag aagccagaac catgcaaacc tatcctcaag   540
gtggaattca naacgactag atc   563

<210> 2608
<211> 1404
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (948)...(1230)
<223> similar to gi4850180 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2608
ttccacaatc aactttggca tgttttgact ggcaggagct tcagctggtg taggcggtgc   60
cagggacaaa gggggaaaag tgccccggcc tctgggagaa gcacttcccc accctcatcc   120
tgggaagcca tcgagtggtc accaatgggg ttcctgggtt ccagtcgtgg ctctatttct   180
caaagccctg tgaccgtggg cacgttgccg aacctctgtg ggctcttgcc ttcaccaaca   240
cctatctctt ctacggtgcg taccgagtgg ggccggagag cagctccgtg tacagcatcc   300
gcctggccta cctcctcagc ccgctggcct gcctgctcct ctgcttctgt gggactctgc   360
ggcggatggt gaaggggctg ccgcagaaga ctctgctggg tcagggctat caggcgcctc   420
tcagcgccaa ggtcttctcc tcatgggact tctgcatccg ggtgcaggaa gcagccacca   480
tcaagaagca tgagatcagc aacgagttca aggtggagct ggaggagggc cgtcgcttcc   540
agctgatgca gcagcagacc cgggcccaga cggcctgccg cctgctctcc tacctgcggg   600
tcaacgtact catcgggctc ctggtggttg gggccatcag cgccatcttc tgggctacca   660
agtactcaca ggacaacaag gaggagtccc tgtttctgct gctccagtac ctgccccctg   720
gggtcatcgc cctggtcaac ttcctgggtc ccctgctgtt cacatttctg gtccagctgg   780
agaactaccc tcccaacacg gaggtcaacc tcactctgat ctggtgcgtg gtgctgaagc   840
tggccagctt ggggatgttc tccgtctccc tgggtcagac catactgtgc attggcagag   900
acaagagcag ctgtgagtcc tacggctaca acgtttgtga ctatcagtgc tgggagaact   960
ccgtggggga ggagctgtac aagctgagta tcttcaactt cctcctcacc gtggccttcg   1020
ccttcctggt caccctgcct cggaggctgc tggtggaccg gttctcaggc cggttctggg   1080
cctggctgga acgggaggag ttcctggtcc ccaagaatgt gctggacatc gtggcggggc   1140
agacggtcac ctggatgggc ctcttctact gccccctgct gcccctgctg aatagcgtct   1200
tcctcttcct caccttctac atcaagaagg tgacggctca tggctggggg gtatgggggtt   1260
cgtgcctctg ggtggatgcc ttgagctggg ctcgcctcct gctcctgctc ctgcccccttt   1320
ccctgggtgt cagccccctg gggtctgcat aactcgctga ctcctggttg ctattgcttg   1380
cgcccccagt acacccttct gaaa   1404

<210> 2609
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (14)...(576)

<400> 2609

```
cggacgcgtg ggctgcttcg aagggcgttt ccatgaacgc tgtcagcagc cctgcaagcg      60
cctgcttatc tgctcacaca agtgccagga accatgcatt ggtgagtgcc caccctgcca     120
gcggacctgt cagaaccgct gtgtccacag ccagtgcaag aagaaatgtg gggagctgtg     180
tagtccctgc gtggaaccct gtgtctggcg ctgccagcac taccagtgca ccaaactctg     240
ctctgagccc tgcaaccgac ccccatgcta tgtgccttgt actaagctgc tagtttgtgg     300
ccacccctgc attggtctct gtggggagcc atgccccaag aaatgccgga tctgccacat     360
ggatgaggtc acccaaatat tctttggctt tgaggatgag cctgatgccc gctttgtgca     420
gctggaagac tgcagccaca tctttgaggt gcaagcccta gaccgctaca tgaatgaaca     480
gaaggatgat gaagtcgcca tcagattgaa agtctgccct atctgccagg tgcccatccg     540
caaaaacctg aggtatggaa ctagcataaa acagcggcta gaagagattg aaatcatcaa     600
ggaaaagatc cagggctcag caggggaaat agcaaccagc caggaacggc ttaaggccct     660
gctggagagg aagagcctcc tccaccagct gcttcctgaa gacttcctga tgttaaagga     720
gaagctggcc cagaaaaatc tgtcagtgaa ggacctgggt ctggatgaga attacatcaa     780
cttctatgac cacctggcc                                                  799
```

<210> 2610
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (426)...(581)

<400> 2610

```
cgtcagggag ggctccctgg tggaggaggc cctgaagctc agtgtgaaga gttcatgtgt      60
ggatctggtt ggggatggca taaccagctc agggagcagg ccccagcagt gggtgtggga     120
accccatgat gggcagtggt cagctgtggt cactgcatgt gggctggggt gggaggtggg     180
ggacaggttg gcaggggcta caaacagcct cgaaggccct gctggggatc cctggacttc     240
accgtggaga agtttaagcc aagctgcctc attgtcagag tagagctttt gagcagttgt     300
caggcattta gcagtgagtg ggtcagaacg ggttggcgga gacagaagct gggggcggtg     360
agcctgagcc cggtgattgt gaaagtcaga ccttttctg ggaaaggctg gggttcctgg     420
aggcctgcat ctccgacttc agcctccagc agctgcgggt gctagacctg agctgcaaca     480
gcatcgaggc ctttcagacg gcctcccagc cccaggctga gttccagctc acctggcttg     540
accttcatac tggtctctgc catcctcctc accacgctgg ccgcctgctg ctgcgtccgc     600
cggcagaagt ttaaccaaca gtataaagcc ccgtcatgct ctcttctgcc tccagcctct     660
ccctgtttac gtcttcctct cagacttcag ctggactcaa gtcttgtccg tcttaaaaat     720
agtgagaagc ccctcagcca ctttcccctt cgtcctccca ctcttca                   767
```

<210> 2611
<211> 1220
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (178)...(1218)
<223> similar to gi3881525 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2611
```
tttttttttt ttaagaaaaa tagaggccag gtgcggtggc tcacacctgc aatcccagca    60
ctttgggagg ccaaggtctc tctctggagc agagtaagtg gccagtgcat gtcaagagag   120
gaagaaaaaa acaagtgcca tgagtgaacc ttttaacatg tcacttcttt tccctgtcag   180
ggggtgtctt ccaacctttt ctttgtagaa cacaactttc ctgaacagga aatccaagag   240
ggcaaaagcc atcagaacca gcatgaggct cactttgtgg tagagctgtg caagtacttc   300
ctgtgccagg aatacctgcc ttcccagatc accatcctca ctacctatac cgggcagctc   360
ttctgcctgc gcaaactgat gcctgccaag acatttgctg gcgtcagggt ccatgttgtg   420
gacaaatacc aagggaaga gaatgacatc atcctcctct cgctagtgcg gagcaaccaa   480
gaaggcaagg tgggtttтct gcagatatcc aaccgcatct gtgtggcctt gtcccgagcc   540
aagaagggaa tgtactgcat cggaaacatg cagatgctgg ccaaggtgcc cctgtggagc   600
aagatcattc atacacttcg agagaacaat caaataggcc ccatgctccg gctctgctgc   660
cagaaccacc ctgaaaccca caccttagta tccaaagctt ctgacttcca aaaagtaccc   720
gaaggaggct gcagcctgcc ctgcgagttc cgcctgggct gtgggcatgt ctgcacccgt   780
gcctgccacc cttatgactc ttcacacaag gagttccaat gcatgaagcc atgccagaag   840
gtcatctgtc aggaagggca ccggtgtccc cttgtttgct tccaggagtg tcagccttgt   900
caggtgaagg tgcccaaaac cattcctcgg tgcggccatg aacaaatggt cccttgttcc   960
gtgcctgagt cagatttctg ctgccaggag ccttgctcca agtctctgag atgtgggcac  1020
agatgcagcc acccatgtgg tgaggactgt gtgcagttgt gttcagaaat ggtcaccata  1080
aaactcaagt gtgggcacag tcaaccggta aaatgtggtc atgtggaagg cctcctgtat  1140
ggtggtctgc tagtcaagtg taccacaaag tgtggcacta tcttggactg cgggcatcct  1200
tgcccaggct cctgccacag                                              1220
```


<210> 2612
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (181)...(397)
<223> similar to gi307082 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2612
```
tgaactgagc cacccagaga cttcaggcag aaatcaccaa cctcaggaaa cagatgggac      60
cccaactcag cagtgtgctg ccctgcaaga caccatcctg gaggcagagc agaagggcaa     120
ggtagccatc ggagatgccc aggacaagct ggctgaggtg gaggctggac cagctgctct     180
gtgcggttcc tggagcagca gaaccaggtg ctggagacca agtgggagct gctacagcag     240
ctggacctga acaactgcaa gaataacctg gagcccatcc ttgagggcta catcagcaac     300
ctgcggaagc agctggagac gctgtctggg gacagggtga ggctggactc ggagctgagg     360
agcgtgcggg acgtagtgga ggactacaaa aagaggtgag caggaggagt ccccctgtaa     420
ctggacaact gcccttgtcc ctccaaggga cccctggcag tcacccccagc ttaaatgctt     480
tggaggtcag tggagggcat tgttcttggt catatcaagc agaatcaccc caacaaaact     540
ctggaacttg ctctctgctc ctccagcctc tggcctgact cttaggacaa atgcccagtg     600
agctgggcag tgggcagagg gttatctctg gctctgggtt tagggaatgt ttggggaaac     660
cactcacgtt ctcctcccat gtaagaggag ggttaagtgc atctggcttc aagactg       717
```

<210> 2613
<211> 427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (202)...(15)
<223> similar to gi3184100 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2613
```
cccacgcgtc cgtgacactc caagagtctt tcaccaaaca ggtagttgtt cattgtttca      60
gcaactatct tggcaacatc ctcagactca aactccacaa atgcatagcc tttgccattt     120
ccagtcattt tacttctgga cagtctgaac tgtgtcacag tgccaaactg ggagaaatat     180
gaaaagatct gggtttcgtt aagtagggtt gttcttgttt tttttgctgg gttatgtgct     240
tgcaaacctg cgccacctcc ttttgaaact ggacatcttc ctgcgggtta agcagtgaga     300
tctcagccag gccagaaaaa gctgccatgc caaaagcggc cgacactaac tccacgcggt     360
gctcctggaa acgtcgggct cccagctccc atgaggcaga aaacgggcat ctattctttt     420
aacatac                                                               427
```

<210> 2614
<211> 416
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)...(419)
<223> similar to gi687822 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2614

```
tttgcagtgg aacatttttt ccatatagct ccaatcctgc taatccgaag ccaaagagag    60
tgtttcttca gcatatgact agaacattcc atgacttgga aggaaatgca gttaaacggg   120
actctggaat atggatcaat gggtttgatt atactggaat ttctcacata accccctcaca  180
ttcctgagat caatgatagt atccgagctc actgtgagga gaatgcacct ctttgtggtt   240
ttccttggta tcttccagtg cactttctga tcaggaaaaa ctggtatctt cctgccccag   300
aagtttctcc aagaaatcct cctcatttcc gactcatatc caaagaacag acaccttggg   360
attctataaa attgactttt gaagcaacag gaccaagcca tatgtccttc tatgtt       416
```

<210> 2615
<211> 497
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(498)
<223> similar to gi3021409 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2615

```
agacattgta tacgagaagg ggggcacgac gtcccaagta ataaagatgt cacctcactg    60
gactggaaca gtgatggaac actattggct atgggttcat atgatggttt cgcaagaata   120
tggacagaaa atggtaacct ggccagcacc ttatgccaac ataaaggccc catcttcgct   180
ctgaaatgga acaaaaaggg gaattatgtt ttgagtgctg gtgtagacaa aacaacaata   240
atttgggatg ctcacacagg agaagccaaa cagcagtttc ctttcattc agcccccgcc    300
cttgatgtgg actggcagaa caacatgacc tttgcctcct gtagcacaga catgtgtatc   360
catgtgtgca ggctcggctg tgaccaccca gtcaaaacct tcagggaca cacaaacgag    420
gtcaatgcca tcaaatggga tccttctgga atgttgctgg cggtctgctc ggatgacatg   480
acattgaaga tctggag                                                   497
```

<210> 2616
<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)...(499)
<223> similar to gi3806122 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2616
```
tttcgtggcg ccgtgggcaa gagcagcctc atcgtcagct acacctgcaa tgggtacccc      60
gcgcgctacc ggcccactgc gctggacacc ttctctgtgc aagtcctggt ggatggagct     120
ccggtgcgca ttgagctctg ggacacagcg ggacaggagg attttgaccg acttcgttcc     180
ctttgctacc cggataccga tgtcttcctg gcgtgcttca gcgtggtgca gcccagctcc     240
tttcaaaaca tcacagagaa atggctgccc gagatccgca cgcacaaccc ccaggcgcct     300
gtgctgctgg tgggcaccca ggccgacctg agggacgatg tcaacgtact aattcagctg     360
gaccagggggg gccgggaggg ccccgtgccc caaccccagg ctcagggtct ggccgagaag     420
atccgagcct gctgctacct tgagtgctca gccttgacgc agaagaactt gaaggaagta     480
tttgactcgg ctattctc                                                   498
```

<210> 2617
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (304)...(780)
<223> similar to gi193367 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2617
```
tctaaaggct cctttgcttt tgggaaatgt gctcagagga agaactctgc agctgaactg      60
tccctccctc tggggctgcc ctgggtcttt ggctgcctgt gtcctcaggg tggggcaggt     120
tggcacttcc ctctggctct ccccggagca gggcttgccg cttgtcctcc tctctactca     180
caaaaccctc ctggatggga tcctgctgcc ctttatgctg ctctcccagg gcctgggtgt     240
gcttcgtgtg gcctgggact cccgcgcctg ctcccctgcc ctcaggcctc ggcccccctg     300
gggctgtgga caggagctct ggctgtccta cgtagcttgg ggagccgctg gggctgcagc     360
caccggatct gctcctgggt gcgcctagct cagcccttt ccctgcagga atacatcgtc     420
agtgccagaa gctgctgggg cggcaaacag accctggagc agctactgca gcccatcgtg     480
ctgggccaat gtactgctgt cccagacact gagaaggagc aggagtggac ccccataact     540
gggcctctcc tggccctcaa ggaagaggac cagctcctgg tcaggagact gagctgtcat     600
gtcctgagtg ccagagtagg gagctctgcg gagatgagca cggccattat ggcaacgctg     660
ctgctcttca agcatcagaa gggtgtgttc ctgtcgcagc tcctggngga gttctcctgg     720
ctgacggagg agatactagt gcgtggcttt gatgtangct tctctgggca gctgcggagc     780
```

<210> 2618
<211> 558

1538

```
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(554)
<223> similar to gi4887715 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


     <400> 2618
cccccgaagg gcccaggccc tgctggacgt gacactgctg gacatcaatg accatgcccc      60
ggctttcaat cagagccgct accatgctgt ggtgtctgag agcctggccc ctggcagtcc     120
tgtcttgcag gtgttcgcat ctgatgccga tgctggtgtc aatggggctg tgacttacga     180
gatcaaccgg aggcagagcg agggtgatgg acccttctcc atcgacgcac acacggggct     240
gctgcagtta gagcggccac tggactttga gcagcggcgg gtccatgaac tggtggtgca     300
agcacgagat ggtggggctc accctgagct gggctcggcc tttgtgactg tgcatgtgcg     360
agatgccaat gacaatcagc cctccatgac tgtcatcttt ctcagtgcag atggctcccc     420
ccaagtgtct gaggccgccc cacctggaca gctcgttgct cgcatctctg tgtcagaccc     480
agatgatggt gactttgccc atgtcaatgt gtccctggaa ggtggagagg gccactttgc     540
cctaagcacc catgtatt                                                   558


     <210> 2619
     <211> 569
     <212> DNA
     <213> Homo sapiens

     <220>
     <221> misc_feature
     <222> (41)...(571)
     <223> similar to gi663111 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters


     <400> 2619
caccgtgctg gaattccccg gtcgacgatt tcgtcaggag caccggtgca gcccaagtgg      60
tgactgtctc aatgtccctg gctcctaccg ctgcacctgt cgccagggct ttgccgggga     120
tggcttcttc tgcgaagaca gggatgaatg tgccgagaac gtggacctct gtgacaacgg     180
gcagtgcctc aatgcgcccg gcgggtaccg ctgtgaatgt gagatgggct ttgaccccac     240
cgaggaccac cgggcctgcc aggatgtgga cgagtgtgcg caagggaacc tctgtgcatt     300
tgggagctgt gagaacctgc ctggaatgtt ccgctgcatc tgcaatggtg gctacgaact     360
ggaccgaggg ggtggcaact gcacagacat caacgagtgt gcagaccccag taaactgcat     420
caacggcgtg tgcattaaca cccccggcag ctacctctgc agctgccccc aggattttga     480
gctgaacccc agcggagtgg gctgcgtgga cactcgggcc gggaactgtt cctggagac      540
gcatgaccga ggggacagtg gcatttcct                                       569


                            1539
```

<210> 2620
<211> 568
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (161)...(555)
<223> similar to gi3875423 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2620
```
caccgttctt gaattcccgg gtcgacgatt tcgttgcaag aggtgccact caaatcatca      60
cagtaatgaa gtgggggccg ctgcggagac tcacctctat cagacctctc ctccgcccat     120
caacacgcgg gaatgcggcg ctgaggagct ggtctgcgcc gtggaagccg tgatcagctt     180
gttgaaagaa gccgagttcc atgctgagca gcgagaacat gagctgaacc ggcggcggca    ,240
gctgggcctc tcctcttccc accattccct ggataatgct gactttgata acaaggacga     300
tgataaacac gatcagaggc tgctcagtca attcggaata tggttcttag tgagcctctg     360
cacacccagt gagaacacgc ctacagaaag cttggcccgg ctggtggcca tggtgtttca     420
gtggtttcac tccactgcgt atatgatgga tgatgaagtg ggaagtctgg tggaaaagct     480
gaagcctcag tttgtcacca aatggctgaa gaccgtatgt gatgttcgct tcgatgtcat     540
ggtcatgtgc cttcttccta aacccatg                                       568
```


<210> 2621
<211> 542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (175)...(543)
<223> similar to gi438056 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2621
```
tttcgtaaag agggactcac tgggaaatac tgtgataaat ctgttactcc tgacactgcc      60
ttatcattag aaggcaaagg gcgcttggac taccacatga gtcagaatga gaagcgggaa     120
tgtttgttaa ggcaaagctt acgaggtgcc atgttggagc cttttggtgt gaacagtctg     180
gaagtaaaat ttaggaccag aagcgagaat ggcgttttaa tccatatcca agaaagcagc     240
aattacacta ctgtgaagat taagaatggc aaagtatatt ttacatccga tgcaggaatt     300
gctgggaaag tggagagaaa tattcctgaa gtatatgttg cagacggcca ctggcacact     360
tttctaattg ggaaaaatgg aacagcaaca gtattgtctg ttgacagaat atataacaga     420
gatattatcc accctactca ggacttcggt ggccttgatg tgcttactat atcacttgga .    480
ggaattccac ccaatcaagc acatcgagat gcccaaacag caggttttga tggctgcatt     540
gc                                                                   542
```


1540

<210> 2622
<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (41)...(385)
<223> similar to gi5360129 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2622
```
gaattcccgg gtcgacgatt tcgtggcgct tgcagccagg cagggcccag atcagtcctc      60
cctcggcatg gggctggagg ctcagaggct gccaggggct gaggaggccc cagtgcgggt     120
tgccctgcga gttcgaccac tgctgcccaa ggagctgctg cacgggcatc agagctgcct     180
gcaggtggag ccagggcttg gccgcgtcac tctgggccgt gaccgacact ttggcttcca     240
cgtggtgctg gccgaggatg ccgggcagga ggccgtgtac caggcctgcg ttcagcccct     300
ccttgaggcc ttcttcgagg gcttcaatgc cactgtcttt gcctatggtc agacgggctc     360
agggaagaca tacaccatgg gggaggccag tgtgggtgag tgaccctgtt cgtggccctg     420
tgcccacttt aaggagcctt agttccttcc tggatttctg ccccgtcctc ttgctgcctg     480
ttctgtggaa ggtggggatg ctgggggagg aagagttgat ttcctagaca gggatctgtg     540
gcccaggctg ggaccaa                                                    557
```


<210> 2623
<211> 560
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(550)
<223> similar to gi4038413 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2623
```
ttccattaaa aaatatttga gctcagactg cccagtccca agccaatgtg tgcttgctcg      60
gaccttgaat aaacagggca tgatgatgag tatcgccacc aagatcgcta tgcagatgac     120
ttgcaagctc ggaggcgagc tgtgggctgt ggaaatacct ttaaagtccc tgatggtggt     180
cggtattgat gtctgtaaag atgcactcag caaggacgtg atggttgttg gatgcgtggc     240
cagtgttaac cccagaatca ccaggtggtt ttcccgctgt atccttcaga gaacaatgac     300
tgatgttgca gattgcttga aagttttcat gactggagca ctcaacaaat ggtacaagta     360
caatcatgat ttgccagcac ggataattgt gtaccgtgct ggtgtagggg atggtcagct     420
gaaaacactt attgaatatg aagtcccaca gctgctgagc agtgtggcag aatccagctc     480
```

aaataccagc tcaagactgt cggtgattgt ggtcaggaag aagtgcatgc cacgattctt   540
taccgaaatg aaccgcactg   560

<210> 2624
<211> 531
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(534)
<223> similar to gi687210 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2624
taccttggtt tatagggaaa attatccaga tctacgaaat gatgctggtg agacatggct   60
atatgattgt aggagacccc atgggcggca agacctctgc ttataaagtg ttggctgcag   120
ctctcggcga tttacacgca gccaatcaga tggaggagtt tgctgtggag tacaagatca   180
tcaaccccaa ggctatcacg atggggcagc tgtatgggtg ctttgaccaa gtgagccacg   240
agtggatgga tggtgtcctt gccaatgctt tccgggagca agcgtcttca ctctctgatg   300
atcgcaagtg gattatattt gatgggccag tggatgctat ttggattgaa aatatgaaca   360
ctgttctgga tgacaataaa aagctgtgtc tcatgagtgg ggaaattatc cagatgaact   420
ccaagatgag cctgatcttc gagcccgccg acctcgagca agcctctcca gccactgtga   480
gcaggtgtgg gatgatctac atggagcccc atcaactagg ctggaagccc c   531

<210> 2625
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(437)
<223> similar to gi5669800 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2625
ctggggtgcc ccgcaacctg ccttccagcc tggagtatct gctgttgtcc tacaaccgca   60
tcgtcaaact ggcgcctgag gacctggcca atctgaccgc cctgcgtgtg ctcgatgtgg   120
gcggaaattg ccgccgctgc gaccacgctc ccaacccctg catggagtgc cctcgtcact   180
tcccccagct acatcccgat accttcagcc acctgagccg tcttgaaggc ctggtgttga   240
aggacagttc tctctcctgg ctgaatgcca gttggttccg tgggctggga aacctccgag   300
tgctggacct gagtgagaac ttcctctaca aatgcatcac taaaaccaag gccttccagg   360

1542

```
gcctaacaca gctgcgcaag cttaacctgt ccttcaatta ccaaaagagg gtgtcctttg      420
cccaccttgt ctctgggccc cctttccttc ggggaagcct gggtcgcccc ttgaagggag      480
ctgggacatg gcacggcaat ctttctttcc cgctccactt cgaatggggg aagacc         536
```

<210> 2626
<211> 539
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(540)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1)...(432)
<223> similar to gi1513030 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2626
```
gtcagatggt tctgtgaagg gaaagaactg cacaacactc ctgatattca aatccactgt       60
gagggagggg acctccatac cctgatcata gcagaggcct ttgaggacga cacaggtcgc      120
tacacctgtt tggctacgaa tcccagcggc tcagacacaa catctgctga ggtgttcatt      180
gaaggtgcca gttcaacaga ttctgacagt gaaagtttag ctttcaaatc aagagctgga      240
gctatgccac aagctcaaaa gaaaacaact tctgtttcct tgacaatagg atcatcatct      300
ccaaagacag gggtgaccac agctgtgatt caaccactgt ctgtccctgt gcaacaggtt      360
cacagtccaa cttcatatct ctgccgacct gatggaacca ctactgccta ctttcctcct      420
gtttttacaa aggaactggc aaaacacagg cccgtggcgg aaggggccag gtggtgggtt      480
ctgggagtgc cgggtccgtg gggcnnnacc ccctctgcag ggtccaggtg gggggtttc       539
```


<210> 2627
<211> 568
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(562)
<223> similar to gi488555 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2627
```

```
aagagtgtgg gaaagccttc acccattctt cataccttac tgatcataca agaatccaca        60
gtggaaagaa gccctatgta tgtatggaat gtggaaaagc cttcactaga tccacaggac       120
ttattttaca catgcgaatt cacactggag aaaagccata tgaatgtaag gagtgtggaa      ·180
aagcttttat tcattcctca taccttacaa aacatgtaag gattcacagt ggagagaagc       240
tgtatttatg taaggcatgt gggaaagctt ttactcgttc ctcaggactt gttttacaca       300
tgagaacaca tactggagaa aagccctatg aatgtaaaga atgtgggaaa gcctttaata       360
attcctcaat gcttagtcaa catgtaagga ttcacactgg agagaagcca tatgaatgca       420
aagaatgtgg gaaagctttc actcaatcct cgggccttag tacccattta agaactcaca       480
ctggagaaaa ggcctgtgaa tgtaaggaat gcggtaaagc atttgctcgt tccacaaatc       540
ttaatatgca catgcgaacg caacgaaa                                           568
```

<210> 2628
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(573)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (21)...(575)
<223> similar to gi340444 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2628
```
tttcgtattt gggagaccaa agtggggaga aactctttga ctgcagccag tgcaggaaat        60
ccttccactg taagtcatat gttcttgaac atcaaaggat tcacacccag gagaagccct       120
ataaatgtac caaatgtagg aaaacctttta gatggagatc aaactttact cgtcatatga       180
ggttgcatga ggaggaaaaa ttctacaaac aagatgaatg tcgtgaaggc ttcaggcaat       240
ctcctgactg cagtcagccc cagggtgctc ccgctgtgga gaaaacattt ctgtgtcagc       300
agtgtgggaa aacttttact agaaagaaaa ctctcgttga ccaccagaga attcacacag       360
gtgagaaacc ttaccagtgt agcgattgtg ggaaggactt tgcctatagg tcagccttta       420
ttgttcataa gaagaagcat gccatgaaaa gaaaacctga gggcgggcca tcttttnagt       480
caggacacag tgttccaggt tcctcaaaca gtcactccaa aaaggagccc tacaaatgca       540
gccagtgtgg caaggccttt cgcaatcact ca                                      572
```

<210> 2629
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (229)...(785)
<223> similar to gi2459833 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2629
tttcgtgtca gcacctctgt gtgagaggct gctacctgag gtgggatggc catgggtggg   60
tcccagctcc tgcaccccag tgttctccca cagggttctc tctggctccc acacccaccc   120
ctcattcctc agtttcccca tggagggcag ctgctggcat tcttgctctg cccaggctta   180
ctatgaaggc tgctgaggaa cctgtaaaca catctctggc ctcaccagag gcccttcctg   240
ttcgcattcc tcagatggca agactgtaaa ttcacctgtc acccagaatg ccgcagcctg   300
atccagttgg actgcagtca gcaggagggt ttatcccggg acagaccctc tccagaaagc   360
accctcaccg taaccttcag ccagaatgtc tgtaaacctg tggaggagac acagcgcccg   420
cccacactgc aggagatcaa gcagaagatc gacagctaca acacgcgaga gaagaactgc   480
ctgggcatga aactgagtga agacggcacc tacacgggtt tcatcaaagt gcatctgaaa   540
ctccggcggc ctgtgacggt gcctgctggg atccggcccc agtccatcta tgatgccatc   600
aaggaggtga acctggcggc taccacggac aagcggacat ccttctacct gcccctagat   660
gccatcaagc agctgcacat cagcagcacc accaccgtca gtgaggtcat ccaggggctg   720
ctcaagaagt tcatggttgt ggacaatccc cagaagtttg cacttttaa gcggatacac   780
aagg   784

<210> 2630
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(390)
<223> similar to gi3170979 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2630
tttcgtccca agtacacttg gtgcagtctg gggctgaggt gaagaagcct ggggcctcag   60
tgaaagtctc ctgtaaggct tctggataca tctttagcga ctacttatta cactgggtgc   120
gacaggcccc tggacaaggg cttgagtgga tgggatggtt caatcccaaa agtggcgcca   180
cagagtatgc acagaagtct cggggcaggg tcaccatgac caggatcatg tccatcagca   240
cggcctacat ggaactgagc aggcttacat ctgacgacac ggccatttat tactgcgcga   300
gagggagtta ctatgttcag ctggtgtaca gtatagtgag gggtgctttt gacaggtggg   360
gccaggggac agtggtcacc gtctctt   387

<210> 2631
<211> 572
<212> DNA

```
      <400> 2631
cctgctgagt ggtggtgaca agtggagccg ccaccgtcgg atgttgacgc ctgccttcca   60
tttcaacatc ttgaagcctt atatgaagat tttcaacaag agtgtgaaca tcatgcacga  120
caagtggcag cgcctggcct cagagggcag cgccagactg gacatgtttg aacacatcag  180
cctcatgacc ttggacagtc tgcagaaatg tgtcttcagc tttgaaagca attgtcagga  240
gaagcccagt gaatatattg ccgccatctt ggagctcagt gcctttgtag aaaagagaaa  300
ccagcagatt ctcttgcaca cggacttcct gtattatctc actcctgatg ggcagcgctt  360
ccgcagggcc tgccacctgg tgcacgactt cacagatgcc gtcatccagg agcggcgccg  420
caccctcccc actcagggta ttgatgattt cctcaagaac aaggcaaagt ccaagacttt  480
agacttcatt gatgtgcttc tgctgagcaa ggatgaagat gggaaggaat tgtctgatga  540
ggacataaga gcagaagctg acaccttcat gt                                572
```

```
       <400> 2632
cagatctgcg atttcttgga gacatctcgc gcatagctgc tgatgtgaca gtgttatcac   60
atgttaattt tcctatgatg ggtcgtgtgg gagtaatcac tgtggttctt tgattctgct  120
tagggcaagc aagctccaca tatgcggaac aaactggaaa gctgaccgaa tttgtgtcta  180
acctggcgtg ggatttcgca gtcaaagaag ggttccgggt tttcaaagag atgcccttca  240
caaatccgtt aacaaggtcc taccacacgt gggccaggcc ccagtcccag tggtgcccca  300
caggcagcag gagttatagc tccgttccag aagcttcccc agctcatacc tcaagggggag  360
gtctggttat ctctccagag agcctctctc cacctgtcag agagctgtat caccggctga  420
agcacttcat ggagcaacgt gtgtaccctg cagagccaga gctgcagagt caccaggcct  480
cagcagccag gtggagcccc tccccactga tcgaagacct caaggagaaa gccaaagctg  540
aaggactttg gaacctttc ctaccttag aggctgatcc cgagaaaaaa tacggagcag  600
gactgaccaa tgtggaatat gcacatctgt gtgagctcat gggcacgtcc ctgtatgccc  660
ccgaggtatg taactgctct gcgcctgaca cgggcaacat ggagctgctg gtgaggtatg  720
gcaccgaagc gcagaaggct cgctggctga ttcctctgct ggaggggaaa gcccgctcct  780
gttttgctat gaccgagccc caggttgcct cttcagatgc caccaacatt gaggcttcca  840
tcagagagga ggacagcttc tatgtcataa atggtcacaa atggtggatc acaggcatcc  900
```

<210> 2633
<211> 606
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (9)...(609)
<223> similar to gi4580997 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2633

```
tttcgtgcaa ctggttcggg aaggggaagc gggggttcat catgggcatc tggaattccc    60
acacatctgt gggcgacatc ctgggctccc tgatcgccgg catctgggtg aacgggcagt   120
ggggcctgtc gttcatcgtg cctggcatca ttactgccgt catgggcgtc atcaccttcc   180
tcttcctcat cgaacaccca gaagatgtgg actgcgcccc tcctcagcac cacggtgagc   240
cagctgagaa ccaggacaac cctgaggacc ctgggaacag tccctgctct atcaaggaga   300
gcggccttga gactgtggcc aaatgctcca aggggccatg cgaagagcct gctgccatca   360
gcttctttgg ggcgctccgg atcccaggcg tggacgagtt ctctctgtgt ctgctgatag   420
ccaagctggt cagttacacc ttcctctact ggctgcccct ctacatcgcc aatgtggctc   480
actttagtgc caaggaggct ggggacctgt ctacactctt ccatgttggt ggcatcatag   540
gcggaatcga ggcagggctc gtctctgact acaccaatgg cagggccacc acttgctgtg   600
tcatgg                                                              606
```

<210> 2634
<211> 512
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (355)...(453)
<223> similar to gi3493328 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2634

```
tttcgttctg tcagaacctg atggctgcct ccagtgtcgc tcccccggag aggtgaaggc    60
gcgggcagct ccctgagtgg tggggctcct ctgggtgcca cctcttgctg ggccaagtct   120
gcagaccagg gactcatgag ctcgtctccg caggagcatg cggcgatgct gagtttcatc   180
aaataggacg cagcagaagt tgggaagcac tgcagaagat gggttgtctt ccagaaagac   240
cactgttttg gggaacagct tggctctttc ttcggccgct ggtggttgga ttagctgttg   300
```

```
gagggatgtg caggactgaa tggctagtac tgatggtttc acggctgtct ctgcaggcag    360
ggtccctggg ctgccctctt cgtgaggacc atgtgtggac gtgtgctccc tgcagtgctc    420
acccggctct gccagctgct ccgtcaccag gtgaggctct ccttcatggg ggccacccтt    480
gggggcccac tctgagggcc aggctgctac tt                                  512
```

```
        <210> 2635
        <211> 340
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (6)...(343)
        <223> similar to gi4062472 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2635
gccgctgcat tatctcagga atcgttctgg gatctctata tggcctgatg ccgctgtacc     60
tcaatcacaa aggggtgagc aatgccagca ttggtttctg gatggcggta ctggtcagtg    120
cgggtatcct tggacaatgg ccgattggac gtctggcgga taagtttggt cgactgctgg    180
tgttgcgtgt tcaggtcttt gtcgtcattc tcggcagtat cgcgatgctt agccaggcgg    240
cgatggcccc agcgttattc atcctcggtg ccgctggctt tacgctatat ccggtggcga    300
tggcatgggc ttgcgagaaa gttgaacatc atcaactggt                         340
```

```
        <210> 2636
        <211> 463
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2)...(465)
        <223> similar to gi1742763 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2636
tgaacacttc tttgccgcgc ttaatgcggc ggtagcctct gatggtacgt ttatttatgt     60
gcctaaaggc gtgcgctgcc cgatggaact ttccacctat tttcgcatta acgcacaaaa    120
aaccgggcag tttgagcgca ccattctggt ggccgacgaa gacagctacg tcagctacat    180
tgaaggctgt tccgctccgg tgcgtgacag ctatcagtta cacgcggcag tggtggaagt    240
catcatccat aaaaacgccg aggtgaaata ttccacggta caaaactggt ttcctggcga    300
taacaacacc ggcggtattc tcaacttcgt caccaagcgt gctttgtgcg aaggcgaaaa    360
cagcaaaatg tcatggacgc aatcagaaac cgggtcagcg attacgtgga aatatcccag    420
```

ctgcattttg cgcggcgata actccattgg tgagttttg tca   463

          <210> 2637
          <211> 435
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (1)...(436)
          <223> similar to gi1787602 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters

          <400> 2637
ctgcagctag ataatttcct caccaccgga tttctcgaca tcatcccact aagtcagccg   60
ctggagtttc ggcgggaagg gttgcaacat ggggtgctgg ataagctgcg cagtggtaaa   120
tatccgcaac aggcgagcct gaatcttttg cgccagccgg tggaagagtg ccgcaaaatg   180
gtgttcagtt ttattcaaca agccctggcg gatggtttgc gtaacgtgct gattattcat   240
ggtaaagggc gggatgataa atcgcatgcc aatattgtcc gcagctatgt ggcgcgctgg   300
ctgaccgaat ttgatgatgt tcaggcatat tgcaccgcgc taccgcatca tggcggcagc   360
ggggcgtgtt acgtcgcact acgtaaaacg gcgcaggcga agcaagaaaa ctgggagcgc   420
cacgctaagc gcagt   435

          <210> 2638
          <211> 440
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (61)...(168)
          <223> similar to gi5912034 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters

          <400> 2638
atccccggtg aggcattcgg cacgagatgg aaccttgttt ttgtcggctt attttcctag   60
atgggaagtg atggaatttt acgcctcagt acttcagctc taaataatga attctttgca   120
tatgcagcac aagggtggaa acagcgactg gcagaaggta aatttgtatt ttctattatt   180
atgtgacata ttggagtaca cataccgtac tgagcttgta cctttctctg attttcagt   240
cttttccccg acacagtaca ctttaattta gtaaaaactc atatcccttt ccaaatgagt   300
tcactgattc ttttgttata cttgacatta ttgatgtcag atatttttga agaaagcata   360
attttatctt ggacatcata aaatttttga tgcagcaaca ttttcttgcg gatggtaatt   420
ttaatgacat tggttgatcc   440

                                    1549

<210> 2639
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (195)...(329)
<223> similar to gi3806164 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2639
tggggaattc ggcacgagga ccactggcag ggtaatgccc accgctcgca gacccgggac   60
gagtttgccc agctcttcca gtacaaggca gtgagtggag ttggagttag ggcctgctag   120
agactggctg gtagctcggt ggtgagggct gggctccctc ctgctcgctt gtgaccttgg   180
tcccgccctt ttaggtgttc attttggaag agttgctgag ccccattgtc acacccctca   240
tcctcatctt ctgcctgcgc ccacgggccc tggagattat agacttcttc cgaaacttca   300
ccgtggaggt cgttggtgtg ggagatacct gctcctttgc tcagatggat gttcgccagc   360
atggtcatcc ccaggtactg ggagaggagg gagccaggtg gcctgggatg atgctggaac   420
atacagtgtc ttcgggaaaa ccgcaaaaag acacctctcc tgagtca   467

<210> 2640
<211> 666
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(669)
<223> similar to gi882460 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2640
ttattggtgc ttatcatgcc aattatcaca ccacgcaata tgtttatgag catcgcatgg   60
gcgtcaaacc tggcggcaat attgcactgc tggcgtgtgc aggtccgatg ggcattggcg   120
ctatcgatta cgccattaac ggcggcatac aaccgtcgcg ggtggtggtg gtcgatatcg   180
acgacaaacg tctggcgcag gtacagaagc tgctgccggt ggaactggcg gccagtaaag   240
gcattgagct ggtgtatgtg aataccaaag ggatgagcga tcctgtccag atgctgcggg   300
cgctgacagg agatgccggg ttcgatgaca tttttgttta tgcggcgggg cctgctgtcg   360
ttgagatggc tgatgaatta ctggcggaag atggctgtct gaacttcttt gccgggccga   420
cggataaaaa cttcaaagtg ccgtttaatt tctacaacgt ccattacaac agcacgcacg   480
tcgtcggtac atctggcggt tcaacggacg acatgaaaga ggcgattgcc cttatcgcca   540

1550

```
ctgggcagtt acagccgtcg tttatggtga cccatatcgg tggcctggat gcggtgccag     600
aaaccgtgct caatctgccg gatatccctg gcgggaaaaa actcatttat aacggcggga     660
ccctgc                                                                666
```


```
        <210> 2641
        <211> 440
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3)...(443)
        <223> similar to gi1651331 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```


```
        <400> 2641
gtatcttatt tgcggcgctg atctggagtt cgttcgatga gaatatagaa gcttcagccg      60
gaggcggcgg tggttcgtcc atcgacgctg tcatggttga ttcaggtgcg gtagttgagc     120
agtacaaacg catgcaaagc caggaatcaa gcgcgaagcg ttctgatgaa cagcgcaaga     180
tgaaggaaca gcaggctgct gaagaactgc gtgagaaaca agcggctgaa caggaacgcc     240
tgaagcaact tgagaaagag cggttagcgg ctcaggagca gaaaaagcag gctgaagaag     300
ccgcaaaaca ggccgagtta aagcagaagc aagctgaaga ggcggcagcg aaagcggcgg     360
cagatgctaa agcgaaggcc gaagcagatg ctaaagctgc ggaagaagca gcgaagaaag     420
cggctgcaga cgcaaagaaa                                                 440
```


```
        <210> 2642
        <211> 921
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (5)...(923)
        <223> similar to gi2623162 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```


```
        <400> 2642
agaatctcgg cacgaggcgt tctctacctg tgtgataaag gttccccttg gccggtgtga      60
acgacatggg aagtgtaaaa aaacctgtat tgcctccaga gacccatatt gtggatggat     120
aaaggaaggt ggtgcctgca gccatttatc acccaacagc agactgactt ttgagcagga     180
catagagcgt ggcaatacag atggtctggg ggactgtcac aattcctttg tggcactgaa     240
tgggcattcc agttccctct tgcccagcac aaccacatca gattcgacgg ctcaagaggg     300
gtatgagtct aggggaggaa tgctggactg gaagcatctg cttgactcac ctgacagcac     360
```

```
agaccctttg ggggcagtgt cttcccataa tcaccaagac aagaatggag tgattcggga    420
aagttacctc aaaggccacg accagctggt tcccgtcacc ctcttggcca ttgcagtcat    480
cctggctttc gtcatggggg ccgtcttctc gggcatcacc gtctactgcg tctgtgatca    540
tcggcgcaaa gacgtggctg tggtgcagcg caaggagaag gagctcaccc actcgcgccg    600
gggctccatg agcagcgtca ccaagctcag cggcctcttt ggggacactc aatccaaaga    660
cccaaagccg gaggccatcc tcacgccact catgcacaac ggcaagctcg ccactcccgg    720
caacacggcc aagatgctca ttaaagcaga ccagcaccac ctggacctga cggccctccc    780
cacccccagag tcaaccccaa cgctgcagca gaagcggaag cccagccgcg gcagccgcga    840
gtgggagagg aaccagaacc tcatcaatgc ctgcacaaag gacatgcccc ccatgggctc    900
ccctgtgatt cccacggacc t                                              921



        <210> 2643
        <211> 685
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (172)...(299)
        <223> similar to gi5689485 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 2643
gaatcttgca cgagcttacc ctgcactgtg agttacctaa agctcggcgt ccgtgatggt     60
ctacggcgct tctgaggcga tcaggcagcg tcagtcttca gccgggaagc caagaaggag    120
tcagtcagag agccttgggc cagagttcca ggagctctgg gagtggctgc caggactgtt    180
ctacatttgg cctgtgccca tggccatgtg gaagtggtca ctctcttgct ggggagaaga    240
tgcctgattg acatctgtga cagactaaac aggacgtctt taatgaagtt ctgccaagga    300
aagagaaaat accttttaat cccagggaaa ggattgcaat caccacatta taagagaact    360
atgggggtat gaaacaaggc tgaaggcttt taaccatggg agaaaaaggt gttggtatta    420
ttcatatagc ataacctgag gttggagagg accacttggg agcctgtaac caaaattaaa    480
aggtaacttt tgggatggac ggaggttccc ttgaagcagt gccaacctaa atttacctca    540
ggtaagtagt tagattaact ttttcaagat ttcagaccaa acaagacaac ttgtattcag    600
ttgatgaatt cctatgcttt aatgtttttg tttgcccctta attattaaat aaacatttgt    660
tctgaaaaac tccaaaaaaa aaaaa                                          685



        <210> 2644
        <211> 436
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(437)
        <223> similar to gi466727 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

<400> 2644

```
gccacgccga tcactgacgc ttgtgcactg aaagccgtga ccatgattgc cgaaaacctg      60
ccgttagccg ttgaagatgg cagtaatgcg aaagcgcgtg aagcaatggc ttatgcccag     120
ttcctcgccg gtatggcgtt caataatgct tctctgggtt atgttcatgc gatggcgcac     180
cagctgggcg gtttctacaa cctgccacac ggtgtatgta acgccgtttt gctgccgcac     240
gttcaggtat tcaacagcaa agtcgccgct gcacgtctgc gtgactgtgc cgctgcaatg     300
ggcgtgaacg tgacaggtaa aaacgacgcg gaaggtgctg aagcctgcat taacgccatc     360
cgtgaactgg cgaagaaagt ggatatcccg gcaggcctac gcgacctgaa cgtgaaagaa     420
gaagatttcg cggtat                                                     436
```

<210> 2645
<211> 394
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(78)
<223> similar to gi219660 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2645

```
gttgttccag tacccagaca cggaggggaa ggtggaagac tttacggaac tcgtggagag      60
agctcatcag agtggggtag gtataccttt cttgtggggg gtccgtggag gcgtatccca     120
acttgtatct gtctacctat ctctctctct gtcttttcat gtgccttaat ttctttacca     180
ttatcacatg gaatggtaaa actctccttc ctgactcctt gctgctactt ttttctgttc     240
ccggattcct ggcacatggt gggcactcag tatgtattta ctgaatgaat gaatgagcaa     300
tggagttcac aggatgtgaa cacactctgc ccgtcttcct gtagttaaga taatttccta     360
ctctcccact actctcaggg aaaggtagca acct                                 394
```

<210> 2646
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (9)...(686)
<223> similar to gi1911490 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2646
```
gacagtagcc cacacttcca gccttgcaga ccatgaatgg gatggccaat gtgaatcccg      60
ccagccgccc tcactacgcc tccgccatcc cggagcctcg tgcctcttcc cagaccagga     120
ttcctacacc gggcgcttct ccccagctgc ggccacgcca ggccggcctg ccctgagcc      180
cacagagagc agcctccccc agactgggaa aggctgcagg tccttctaga aactcctctc     240
ctagggcctt ccggggggaga ggctctccca agtttgctgg ggcggtgagg gagtcagctg     300
aggatggggga aggccccttc agctccccat ggaatagtcc caggacaacc ccgaaagcag     360
ccctctccag ccgggctgga tccggaagaa ttggcgagag acaaggcacc cagggaaaga     420
agaaaaaagc ccaggaaggg actccagtct gccagacccg gggcagaagc ccttctcgga     480
cgaactttca cggagaaact caaataccag gggctccgga aggtcggaag cctccaagct     540
gcccaggaaa agaccaaaga gatataaaact acaaaagttc tgggacccccc aggtctttgg     600
agcctgatga gggggcagct tcgtgggctt cctctccagt ctgcagccca gtgcagggca     660
agcgcccctc tccctctccg ggggccatta gcttctcctc agtccat                   707
```

<210> 2647
<211> 873
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)...(876)
<223> similar to gi5811583 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2647
```
ttgatgcgca aattcggcac gagcgggagc tgaaggcggt gctcctggaa gctttggggt      60
cacccagtga ggatgtgagg gctgcagcct cgtatgcact gggccgcgtg ggtgctggca     120
gcctgcccga cttcctgccc ttcctgctgg agcaaatcga ggctgaaccc cgacgacagt     180
acctgctgct gcactcactc aaggaggccc tgggggccgc ccagcctgac agcctgaagc     240
cctacgccga ggacatctgg gccttgctgt tccagcgctg cgagggtgct gaggagggca     300
cccgggggggt ggtggccgag tgcattggga agctggtcct tgtgaaccct tcgttccttc     360
tgccccgctt gcggaagcag cttgctgcag gtcggccaca cacccggagc accgtcatca     420
cagcggtcaa gttccttatc tcggaccagc cccatcccat tgacccccctc ctgaagagct     480
tcatcggaga gttcatggag agcctgcagg acccagacct gaacgtgcgc cgtgcgactc     540
tggctttctt caactcagct gtgcacaaca agccctcgct agtccgggac ctgctggatg     600
acatcctgcc cctcctctac caggagacaa agatccggcg ggacctcatc cgagaggtgg     660
agatgggggcc ctttaaacat acagtggacg atgggctgga cgtgcggaag gcggcctttg     720
aatgcatgta ttcactgctt gagagctgcc tgggccagct ggatatctgt gagttcctga     780
accatgtgga ggacgggctg aaggaccact acgacatccg gatgctgacc ttcatcatgg     840
ttgcccggct ggccacccctg tgtcctgcac ctg                                 873
```

<210> 2648
<211> 609
```

1554

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)...(611)
<223> similar to gi1561637 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 2648
acacgctgga agaatcggca cgaggcaagc tgctcttgct gcagtcactc cctccccaac    60
cagtgcttca aagagatggc caggagcttc tgtgtggcca tcctgggacc tcctcgaagc   120
tcccaaagac cccttcagca tagagagaga ggccaggctg caccgacaag ctgcagctgt   180
gaatgaagcc acctgtacct ggagtggcca gcttcctccc cggaactata agaaccccat   240
ctactcttgc aaggtgtttc taggaggtgt tccttgggat attacagaag ctggattagt   300
taacaccttc cgtgtttttg gctctttgag tgtggagtgg cctggtaagg atggcaagca   360
tccccggtgt cctcccaaag ggtatgtgta tctggtcttc gaactagaga agtctgtccg   420
atccttgctt caggcttgct ctcatgaccc gctgagccca gatggcctga gtgaatatta   480
tttcaagatg tccagccgaa ggatgcgctg caaggaggtg caggtgatcc cctgggtatt   540
agccgacagt aactttgtcc ggagcccatc tcagaggctt gaccccagca ggacggtgtt   600
tgtcggtgg                                                           609


<210> 2649
<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (20)...(437)
<223> similar to gi4426629 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 2649
tgccgtatgc aggaccagct ctgatgtaga tgacaaccct ccagtttta atcagctcat    60
ttatgagtca tatgtgagtg aattagcccc ccggggccat tttgtaacct gtgtacaagc   120
ctctgatgca gacagctctg attttgaccg gttggaatat agcattttat ctgggaatga   180
ccggacgagc tttctgatgg acagcaagag tggagttatc acattgtcca accatcggaa   240
gcagcggatg gagcctctgt acagtctcaa tgtgtctgtc tctgatgggt tgttcaccag   300
cactgcacag gtgcatatta gggtacttgg ggctaacttg tacagccctg cctttttcaca   360
aagcacatac gtagctgagg tgagagagaa cgtggctgca ggaacaaagg taattcatgt   420
tcgagccaca gatgg                                                    435

<210> 2650
<211> 427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)...(428)
<223> similar to gi164586 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 2650
```
cctgcgtctg tcggcccgaa tatttatgaa catgatgacc agttaacacc taaaattggt   60
tttccctgga gtgaaatcag aaatatttca tttaatgaca aaaaattcgt tataaagcca   120
attgacaaaa aggcacctga ttttgtcttc tatgcacctc gtctgagaat caataaacga   180
attttggcct tatgtatggg aaaccatgaa ctgtacatgc gaaggagaaa gcctgatact   240
attgaagtac agcagatgaa ggctcaggcc cgggaggaaa agcatcagaa gcagctagaa   300
agggcacaat tagagaatga aaagaagaaa cgagaaatag cagaaaagga aaaggaaaga   360
atagaacgtg aaaaggaaga gctgatggag cgtctgaggc agatcgaaga gcaaacagtg   420
aaagcct   427
```


<210> 2651
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (36)...(414)
<223> similar to gi3810827 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 2651
```
ggttccgtcg cgtgttgacg caatgtgatt tctgcctccc tgcacttgtt atggcacgtg   60
tccacaaaat cgaaaattta actgaagtcc ctgttgtttg tagtaacaac atcgaaaatt   120
taacaaaaac caaagccgca gtacaatttt taaaaaaaat taatgcatat gaagacgtac   180
aaaaatgtca agactcgaaa aaaatacggg ctggaaaggg aaaaatgcgt aatcgtcgtt   240
atactatgcg acgtggacct ctcgttgtat ttaaagagga tcatggtatt aaacaagcgt   300
ttagaaattt gcctggtgtt gatttgattc aagttgacag gcttaatttg ctaaagcttt   360
gccctggggg gcatattggg cggttcgtga ataggacaga agctgctttt g   411
```


<210> 2652
<211> 402
```

1556

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)...(209)
<223> similar to gi4062584 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2652
tgcgatgatg acgcgtttcc ccaacgactc gctggatgcg gcgttatgtc atggtgatgt   60
gttgctacag atttgcgcca acacccagga cacggttatc catgcgctgc gcgatatcat   120
caaacacacg ccggatttgc tcagtgtgcg ctggaagcgg gaagggttta tttccgatca   180
cgcggcgcgt agtaaaggca aagagatggc gctccaacac ccctggtcaa cgcgaaaatg   240
ccacatagct tcggcaggca tgccaattaa acggcgatt aacagactca gtacaccctg   300
atggctgacg actaaaatat tctgatagtg ctgaaattca ctaagccttg cgataaagcg   360
ttccacacgt tgcgaaaatg cctgaaatcc ttcaccgttc gt   402

<210> 2653
<211> 1009
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (109)...(782)
<223> similar to gi3581879 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2653
agagaatcct tcagccactg gggaatttct aagaaatgtc gagggtttga gacatcccag   60
aattaatgtc ttagatcctg gccagtggcc tcaaaagaag ccctgaagct ggatgactcc   120
cagatggaag ccttgcagtt tgctctcaca agggaactgg ctattattca aggacctcct   180
ggaacaggca aaacctatgt gggtctaaaa attgttcagg ccctcctaac caacgagtct   240
gtttggcaaa ttagcctcca gaagttcccc atcttggttg tgtgttatac taatcatgct   300
ttggaccagt ttctggaagg catctacaat tgtcagaaga ccagcattgt gcgggtgggt   360
ggaaggagca acagtgaaat cctgaagcag ttcaccctaa gggagctgag gaacaagcgg   420
gaattccgcc gcaacctccc catgcacctc cgaagggcct acatgagtat catgacacag   480
atgaaggagt cagagcaaga gcttcatgaa ggagccaaga ccctggagtg caccatgcgt   540
ggtgtcctac gggaacagta cctgcagaag tacatctcac ccccagcact gggaaagtct   600
catgaatggc cccagtgcag gatagtgaat ggatttttctt cccagcactg gaagcattcc   660
atgatgctgg agtggctagg tcttggtgtc ggttctttca cgcaaagtgt ttctccagca   720
ggacctgaga atacagccca ggcagaaggg gatgaggagg aagaagggga ggaggagagt   780
tcgctgatag agatcgcaga ggaagctgac ctgattcaag cagaccgggt gattgaggag   840
gaagaggtgg tgaggcccca gcggcggaag aaggaagaga gtggagcaga ccaggagttg   900
gctaaaatgc ttctggccat gaggctagac cattgtggca ctgggacagc agctggacag   960
gagcaagcca caggagagtg gcagacccag cgcaaccaga aaaaaaaaa   1009

1557

```
<210> 2654
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(400)
<223> similar to gi409792 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 2654
tcgcttgagc tggtcgagta taaagttgcc cgcatcgcca ccaccatgcc ttacattcca      60
ggttttcttt ccttccgcga atatcctgcg ctgctggcag cgtgggagat gctgtcgcaa     120
aagccggatt tagtgtttgt cgatggtcat gggatctcgc atcctcgccg tcttggcgtc     180
gccagccatt ttggcttatt ggtggatgtg ccgaccattg gcgtggcgaa aaaacggctc     240
tgcggtaaat tcgaaccgct ctccagcgaa ccgggcgcgc tggccccact gatggataaa     300
ggcgagcagc tggcctgggt ctggcgcagc aaagcgcgct gtaacccgtt ggttatcgct     360
accggccatc gggtcagcgt ggacagcgcg ctggcgtggt ac                        402




<210> 2655
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (15)...(295)
<223> similar to gi216600 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 2655
gcctgcctgc aggaattccc gccaaccgga tcgacgacct gccgaccacc ttttccggcg      60
gtatgcagca gcgtttgcag attgcccgca acctggtgac gcatccgaag ctggtgtttta    120
tggatgaacc gaccggcggg ctggatgtgt cggtgcaggc ccgcctgctc gacctgctgc     180
gcggcctggt ggtggagctg aacctcgcgg tggtgattgt cacccatgat ttaggcgtcg     240
cccgcctgct ggcggaccgt ttgctggtga tgaagcaggg gcaagtggtg ga             292
```

```
<210> 2656
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (217)...(359)
<223> similar to gi1655699 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




      <400> 2656
acttcagggc ttcttggtgt ttgggacaga tgccctgatc ggtcacgcgg ctccctcgac      60
caggggttgg gtgcatctgc cgaatcacct ggaccatatt ggccagctgc aggttggggc     120
ggaagctccg ccgaggaaag ctctttcggc actgagggca tgtgaagcac ctccgagggg     180
ctggaggcgg gggcagtggg gtgacggggt ctagatcctc ttcctcaacc tcctccagca     240
cttcctcctc gtcctcctca tcctcccccc tcaggtcctc ctcctccatg tcccccaagt     300
agtagtccag gtcttcctcc tcgtcctcct cctcccacac atagtccatg ttgtcccagc     360
tggacctgct                                                            370




      <210> 2657
<211> 668
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (162)...(539)
<223> similar to gi2224607 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




      <400> 2657
ggttgcggaa ttcggcacga ggaaacaccc acgacaggaa caagttggcc cagaccctgc      60
cgcccaccca gctgcctccc tctgggacta agtgcctgga gagcctcctg ggctcagtgc     120
ccccgccctg ccctggcctc cacagccttc gggagctccc agacccagtg ctgagtgagg     180
aggtggtgga gggcattgct gctggcattg aggcagccct ctgggacctg acacaaggca     240
ccaatggccg gtacaagacc aagtatcgca gcctgctgtt caacctgcgg gaccccagga     300
acctggactt gtttctcaaa gtggttcatg gagatgtcac cccctacgac ctggtgcgga     360
tgagctcgat gcagctggcc ccccaggagc tggcccgctg gcgggaccag gaggagaaaa     420
ggggaccgca gatgttcatg gactgcagcc cacaggccct gcccatcgca tcagaggaca     480
ccacggggca gcatgaccac cacttcttag accccaactg ccacatctgc aagggtggga     540
ggggacacgg gaggggtgca ggggtggcag ccaggctggg gctgagcgtg cagttcagca     600
gcaacaggga tttgtggcct ggggagaggg tggcagagca ggggtgcccg tgccccaggt     660
cacctaga                                                              668




                                          1559
```

<210> 2658
<211> 627
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (24)...(630)
<223> similar to gi3449294 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2658
ttcccgggtc gacgatttcg tgctacaggc aggtgtatac cacggaggcc cggaccgtgc   60
tcaggtgctg ccgagggtgg atgcagcagc ccgacgagga gggctgcctc tcggctgaat   120
gcagcgccag cctctgtttt cacggtggcc gttgtgtgcc aggctcagcc cagccgtgtc   180
actgtccccc cggcttccag ggaccccgct gtcagtatga tgtggacgaa tgccgaaccc   240
acaacggtgg ctgccagcac cggtgcgtga acaccccagg ctcctacctc tgtgagtgca   300
agcccggctt ccggctccac actgacagca ggtcctgcct ggccattaac tcctgcgccc   360
tgggcaatgg cggctgccag caccactgtg tccagctcac aatcactcgg catcgctgcc   420
agtgccggcc cgggttccag ctccaggagg acggcaggca ttgtgtccgt agaagcccgt   480
gtgccaacag gaacggcagc tgcatgcaca ggtgccaggt ggtccggggc ctcgcccgct   540
gtgagtgcca cgtgggctat cagctagcag cggacggcaa ggcctgtgaa gatgtggacg   600
aatgtgccgc aaggctggcc cagtgtg   627

<210> 2659
<211> 520
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (26)...(486)
<223> similar to gi3786494 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2659
ccctctggtc cacgtggtgg aattcggtct gattgggagg acgcagagga gcgccggggt   60
cgaccagaac caccccgggg ctgtgctggt ccccagtagc ctccggattg gaatcattcc   120
cgcagggtca acggactgcg tgtgttactc caccgtgggc accagcgacg cagaaacctc   180
ggcgctgcat atcgttgttg gggactcgct ggccatggat gtgtcctcag tccaccacaa   240
cagcacactc cttcgctact ccgtgtccct gctgggctac ggcttctacg gggacatcat   300
caaggacagt gagaagaaac ggtggttggg tcttgccaga tacgactttt caggtttaaa   360
gaccttcctc tcccaccact gctatgaagg gacagtgtcc ttcctccctg cacaacacac   420
ggtgggatct ccaagggata ggaagccctg ccgggcagga tgctttgttt gcaggcaaag   480
caagcagcag ctggaggagg agcagaagaa agcactgtat   520

1560

```
<210> 2660
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)...(448)
<223> similar to gil763306 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




     <400> 2660
cgttatgacc atgaacgcca agcttggcac gagggtggaa tgagtaatgg catggtgtgt      60
gcatctggag accggagtca ttacagtgat tctcagctct ctttacatga ggatctttct     120
ccatggaagg aatggaatca aggagctgat ttaggcttgg attcatccac ccaggaaggt     180
tttgattatg aaacaaacag tcttttttgac caacagcttg atgtttacaa taaagaccta    240
gaatacttgg gaaagtgcca cagtgatctt caagatgact cagagagcta cgacttaact     300
caagatgaca attcttctcc atgccctggc ttggataatg aaccacaagg ccagtgggtt     360
ggccaatatg attcttatca gggagctaat tctaatgagc tataccaaaa tcaaaaccag     420
ttgtccatga tgtatcgaag tcaaagt                                         447




     <210> 2661
     <211> 641
     <212> DNA
     <213> Homo sapiens

     <220>
     <221> misc_feature
     <222> (28)...(642)
     <223> similar to gil840399 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




     <400> 2661
tcattacgcc tagcttggca cgagggcaaa ctgcacttca gcgtctatga ctttgaccgc      60
ttctcgcggc acgacctcat cggccaggtg gtgctggaca acctcctgga gctggccgag     120
cagccccctg accgcccgct ctggagggac atcgtggagg gcggctcgga aaaagcagat     180
cttggggagc tcaacttctc actctgctac ctccccacgg ccgggcgcct caccgtgacc     240
atcatcaaag cctctaacct caaagcgatg gacctcactg gcttctcaga cccctacgtg     300
aaggcctccc tgatcagcga ggggcggcgt ctgaagaagc ggaaaacctc catcaagaag     360
aacacgctga accccaccta taatgaggcg ctggtgttcg acgtggcccc cgagagcgtg     420
gagaacgtgg ggctcagcat cgccgtggtg gactacgact gcatcgggca caacgaggtg     480
atcggcgtgt gccgtgtggg ccccgacgct gccgacccgc acggccgcga gcactgggca     540
```

```
gagatgctgg ccaatccccg caagcccgtg gagcactggc atcagctagt ggaggaaaag      600
actgtgacca gcttcacaaa aggcagcaaa ggactatcag a                          641




      <210> 2662
      <211> 406
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (5)...(408)
      <223> similar to gi4432814 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters




         <400> 2662
ggaagggagc aaactggact gcaatgccaa gcagtggagg ctttttgcgg acatcctcaa      60
tgacgtagcc atgttccttg agattatggc tcctgtatac ccaatctgtt tcaccatgac      120
cgtctccacc agcaacctag ccaagtgcat cgtgagtgtt gctggtgggg ccactcgggc      180
tgccctgacc gtgcaccagg ctcggaggaa caacatggct gacgtgtcag ccaaggacag      240
catccaggag acgctggtga acctggcggg gctcttggtc agcctcctga tgctccctct      300
ggtgtcaggt tgccctggct tcagccttgg atgtttcttc ttcctcactg gcctccacat      360
ctacgccaac taccgcgcgg gccgagccct ggtcatggag accttg                    406




      <210> 2663
      <211> 568
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (14)...(570)
      <223> similar to gi1297319 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters




         <400> 2663
ctcacgagaa tacctccaga aagcacagga tgaactcctg gatctccagg acaaggtgat      60
tcaggcagta ggtagcaact ccagcatgtt ggcggagatt gaagtgctgc gccagcgggt      120
gctgagaatt gaaggcaaag acgaggaaat taagagagca gaggatctgt gtcgtctgat      180
gaaggagaaa cttgaagagg aagaaaacct cacccgggag ctgaaatctg agattgagcg      240
gcttcagaaa cgaatggctg aattagagaa gctagaagag gccttcagca ggagtaagaa      300
tgactgtacc cagctgtgtc tgagcctgaa tgaggagaga aatctgacca agaaaatctc      360
ctctgagctg gaaatgctca gagtcaaagt gaaagaacta gaatcttctg aggaccgcct      420
ggataaaact gagcagagtt tagcgtcaga gttagaaaag ctgaaatcat taactctgag      480
```

ctttgtaagt gagagaaaat acttgaatga aaaggagaaa gaaaatgaga aattgataaa   540

agaactcact caaaaactag agcagaac   568


```
          <210> 2664
          <211> 617
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (337)...(531)
          <223> similar to gi1280485 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters
```


```
          <400> 2664
cgtcgacgac aattagaggc aagtctatcc caaaactgag tcttatgtta ataatgtttt      60
ttattttctg tcttctcaga cagctcagct ctctcaagcc agcggaatag tttcccaact     120
tccttttgga ccagctctta ccagccccca cctgcacctt gtttgggggg agttcatcct     180
gacttccagg tcactggacc ccctggcacc ttttctgcag ctgatcccag tccttggccg     240
ggacacaacc tgcatcagac tggcccagcc cctccccctg ctgtgtctga gtcctggcct     300
tatcctttga catctcaggt gagcccatcc tacagccata tgcatgacgt gtacatgcgg     360
caccaccacc ctcatgccca catgcaccac cgccaccgcc accatcatca ccatcaccac     420
cctcctgctg gctctgccct ggatccatcc tatgggcctc tgctgatgcc ttcagtgcat     480
gcggccagga ttcctgctcc ccagtgtgac atcacaaaga cagaaccaac tacagtcacc     540
tctgctacct cagcatgggc tggagccttt catggaacag tagacatagt gcccagcgtg     600
ggattcgata caggtct     617
```


```
          <210> 2665
          <211> 976
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (369)...(973)
          <223> similar to gi5668816 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters
```


```
          <400> 2665
caacatcgac gtcagacctc ttccccacag cctcggcctc ttccacggag ccttctcctg      60
cagggcgaga gcgttcctcc agttgtgggt ctgggggtgg tggcatcatc ccctaaagga     120
agtggtccct ctgtggcaag tgatgaagtc tccagctttg cctcagctct cccagacaga     180
aagactgcgt ccttttcgtc gttggaaccc caggatcagg aggatttggg agcccgtgaa     240
```

```
gaagaaaatg agaggagatg gggacctttg acctgaacgg gcagttgttg gtcgcacaac      300
cgcgtagaaa tgcccaaacc gtccacgagg acgtcagagc agcggctggg aagccagaca      360
agatggagga gacgctgaca tgcatcatct gccaggacct gctgcacgac tgcgtgagtt      420
tgcagccctg catgcacacg ttctgcgcgg cttgctactc gggctggatg gagcgctcgt      480
ccctgtgtcc tacctgccgc tgtcccgtgg agcggatctg taaaaaccac atcctcaaca      540
acctcgtgga agcatacctc atccagcatc cagacaagag tcgcagtgaa gaagatgtgc      600
aaagtatgga tgccaggaat aaaatcactc aagacatgct gcagcccaaa gtcaggcggt      660
cttttttctga tgaagaaggg agttcagagg acctgctgga gctgtcagac gttgacagtg      720
agtcctcaga cattagccag ccatacgtcg tgtgccggca gtgtcctgag tacagaaggc      780
aggcggcgca gcctccccac tgcccagcac ccgagggcga gccaggagcc ccacaggccc      840
tgggggatgc accctccacg tccgtcagcc tgacgacagc agtccaggat tacgtgtgcc      900
ctctgcaagg aagccacgcc ctgtgcacct gctgcttcca gcccatgccc gaccggagag      960
                                                                      976
tggagcgcga gcagga
```

```
        <400> 2666
gcgctgagcc ggctccgaga actctgtcgt cggtggctga gacccgagct gctctccaag       60
gagcagatcc tggagctgct ggtgctggag cagttcctca ccatcctgcc cgaggagctt      120
caagcctggg tgcgagagca ctgcccagag agcggggagg aggcggtggc cgtggtgcgg      180
gctctgcagc gagcgctcga tggaacctca tcccagggga tggtgacttt cgaggacacg      240
gctgtgtctc taacctggga ggagtgggag cgcctggacc cagcacggag ggacttctgc      300
agagagagtg cgcagaagga ttccgggagc acagttccgc cgagtgacac tgtttatgga      360
ccgtaagagc tgaccgctgt ctgaaggctt gcccacagac cttacactca aaaggattct      420
ctaaaaagtg aattctttga tgttgatcaa accatgcctt acgcctaatg acttttccac      480
attcactgca ttcataagac tttgctcttg tgagaattcg ctcatgcccc aaaagcaaag      540
atctttgatt gaagggtttg ccatcctcat catatctgcc ctgcttccac cttgtttgcg      600
cattctgatc ttgaataagg ttaaggtttt gaaggaagcc cctgctgtat tcatcaccac      660
tagtagggaa agtaagcctg caactgtcca caaattcttt acacttatgt aacttttctg      720
aaagtttctc agctgattcc tgcattacca ctgatatctt atatgactct aaatcttcag      780
aaaatttctg ttttggagtt agcttttca tcttgtgtct ggcttcagaa cctagccaaa       840
taacaagaaa agatgtaaat gacctatcca ctgcatttga aa                         882
```

<220>
<221> misc_feature
<222> (1)...(117)
<223> similar to gil750387 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2667
gcgatggaaa tcgtccacga gccgcgcgac ctcgagcgtt acatgcgcga ggccgtgaag   60
gtgtcgaacg attcgccggt gctgctcgac cgcttcctga acgacgcgat cgagtgcga   119

<210> 2668
<211> 398
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(336)
<223> similar to gil017722 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

.<400> 2668
tacaaatgtg aagaatgtgg caaagccttt actcggtcca cagccctgaa tgaacataag   60
aaaattcatt ctggagagaa accctacaaa tgcaaagaat gtggcaaagc ctataactta   120
tcctcaaccc ttactaaaca taagagaatt catactggag agaaacccct cacatgtgaa   180
gaatgtggca aagccttcaa ttggtcctca tcccttacta aacataagat aattcatact   240
ggagagaaat cctacaaatg tgaagaatgt ggcaaagctt ttaatcggcc ctcaacccctt   300
actgtacaca agcgaattca tactggcaag gaacatagtt gaatgacatt tctagtaatc   360
tctaattcca gtgtctttac acagcaaata aattggag   398

<210> 2669
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(401)
<223> similar to gil212992 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 2669
acagaacatg gatatgaggc atcaatagcc ggtagtgcta ttgccacatt acaaaaagag      60
ttgtcagcca catcttctgc tcagaagatc accaaatcgg tgaaggctcc tactgtgaag     120
cccagtgaga ctagagtaag ggcagagccc acacccttgc cacagttccc cttcgctgac     180
acaccagata cttacaagag tgaagctggc gttgaggtga aaaaggaagt aggggtgagc     240
atcactggca ccaccgtccg tgaagagcgc tttgaagtac tgcacggacg cgaagccaag     300
gtaacagaaa cagcaagagt accagcacct gttgaaattc ctgttactcc accaactttg     360
gtctcgggct aaaaaatgt gactgtcata gaaggtgaaa                            400
```

```
<210> 2670
<211> 398
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (79)...(165)
<223> similar to gi4883437 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
<400> 2670
aaacagggga tttaagtgtg tcttttgtgt ttgcaaggca ctaacaccac tcccgtctgt      60
atttaaatgc tgtccccagg ttacgactat ggctatgtct gcgtggagtt ttcactcttg     120
gaagatgcca tcggatgcat ggaggccaac caggttgctt tatacttcgg tcaaatgatg     180
ctggaaggat atattttttt atatatgggg agggagggtt tcaaatgatt ttactttgga     240
aaggtacaag aagtctatct gtggagcata ctgtattcca accatcggtt gtgaggaaaa     300
tctttaaaaa ggctggaaag ctttctctag aaaacttaat gggcacagag tgcattttaa     360
aagctagagc ccagttgctt ttggactaga ttccaaaa                             398
```

```
<210> 2671
<211> 510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(511)
<223> similar to gi1212992 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
<400> 2671
```

```
cccatcaggt ctgttaggtc tccattgctc atgcgtaaga ctcaggcatc caccgtggcc    60
acaggtgctg aagtgcctcc cccttggaag caagagggct acgtggcctc ctcatctgag   120
gctgagatga gagagacaac gctgacaacc tctactcaga tcaggacaga agagagatgg   180
gaagggagat acggtgtcca ggagcaagtg accatcagtg gtgctgcggg tgctgccgcc   240
agtgtgtcgg ccagtgctag ctacgcagca gaggctgttg ccactggtgc taaagaggtg   300
aaacaagatg ctgacaaaag tgcagctgtt gcgactgttg ttgctgccgt tgatatggcc   360
agagtgagag aaccagtgat cagcgctgta gagcagactg ctcagaggac aaccacgact   420
gctgtgcaca tccaacctgc tcaagaacag gtaagaaagg aagcggagaa gactgctgta   480
actaaggtag tagtggccgc cgataaagcc                                    510
```

```
<400> 2672
cagtaaccgg gtcgacgatt tcgtctgtga agctccatgt ggtggacatc tgacagcgtc    60
cagcggagtc attttgcctc ctggatggcc aggatattat aaggattctt tacattgtga   120
atggataatt gaagcaaaac caggccactc tatcaaaata acttttgaca gatttcagac   180
agaggtcaat tatgacacct tggaggtcag agatgggcca gccagttcgt ccccactgat   240
cggcgagtac cacggcaccc aggcacccca gttcctcatc agcaccggga acttcatgta   300
cctgctattc accactgaca acagccgctc cagcatcggc ttcctcatcc actatgagag   360
tgtgacgctt gagtcggatt cctgcctgga cccgggcatc cctgtgaacg gccatcgcca   420
cggtggagac tttggcatca ggtccacagt gactttcagc tgtgacccgg ggtacacact   480
aagtgacgac gagcccctcg tctgtgagag gaaccaccag tggaaccacg ccttgcccag   540
ctgcgacgct ctatgtggag gctacatcca agggaagagt ggaacagtcc tttctcctgg   600
gtttccagat ttttatccaa actctctaaa ctgcacgtgg accattgaag tgtctcatgg   660
gaaaggagtt caaatgatct ttcacacctt tcatcttgag agttcccacg actatttact   720
gatcacagag gatggaagtt tttccgagcc cgttgccagg ctcaccgggt cggtgttgcc   780
tcatacgatc aaggcaggcc tgtttggaaa cttcactgcc cagcttcggt ttatatcaga   840
cttctcaatt tcgtacgagg cttcaatat cacattttca gaatatgacc tggagccatg    900
tgatgatcct ggagtccctg ccttcagccg aagaattggt tttcactttg gtgtgggaga   960
ctctctgacg ttttcctgct tcctgggata tcgtttagaa ggtgccacca gcttacctg   1020
cctgggtggg ggccgccgtg tgtggagtgc acctctgcca aggtgtgtgg ccgaatgtgg   1080
agcaagtgtc aaaggaaatg aaggaacatt actgtctcca aattttccat ccaattatga   1140
taataaccat gagtgtatct ataaaataga aacagaagcc ggcaagggca tccaccttag   1200
aacacgaagc ttccagctgt ttgaaggaga tactctaaag gtatatgatg gaaaagacag   1260
ttcctcacgt ccactgggca cgttcactaa aaatgaactt ctggggctga tcctaaacag   1320
cacatccaat cacctgtggc tagagttcaa caccaatgga tctgacaccg accaaggttt   1380
tcaactcacc tataccagtt ttgatctggt aaaatgtgag gatccgggca tccctaacta   1440
cggttatagg atccgtgatg aaggccactt taccgacact gtagttctgt acagttgcaa   1500
cccggggtac gccatgcatg gcagcaacac cctgacctgt ttgagtggag acaggagagt   1560
gtgggacaaa ccactacctt cgtgcatagc ggaatgtggt ggtcagatcc atgcagccac   1620
atcaggacga atattgtccc ctggctatcc agctccgtat gacaacaacc tccactgcac   1680
```

                                1567

```
ctggattata gaggcagacc caggaaagac cattagcctc catttcattg ttttcgacac    1740
ggagatggct cacgacatcc tcaaggtctg ggacgggccg gtggacagtg acatcctgct    1800
gaaggagtgg agtggctccg cccttccgga ggacatccac agcaccttca actcactcac    1860
cctgcagttc gacagcgtgt att                                           1883
```



```
<210> 2673
<211> 1177
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1178)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (14)...(993)
<223> similar to gi599959 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters
```



```
<400> 2673
cccacgcgtc cgctcctctg ggggtcaaga ggaccccgcc agccagcagt gggcacgacc     60
gcgcttcaca cagccctcca agatgaggcg ccgggtgatc gcacggcccg tgggtagctc    120
cgtgcggctc aagtgcgtgg ccagcgggca ccctcggccc gacatcacgt ggatgaagga    180
cgaccaggcc ttgacgcgcc cagaggccgc tgagcccagg aagaagaagt ggacactgag    240
cctgaagaac ctgcggccgg aggacagcgg caaatacacc tgccgcgtgt cgaaccgcgc    300
gggcgccatc aacgccacct acaaggtgga tgtgatccag cggacccgtt ccaagcccgt    360
gctcacaggc acgcaccccg tgaacacgac ggtggacttc gggggggacca cgtccttcca    420
gtgcaaggtg cgcagcgacg tgaagccggt gatccagtgg ctgaagcgcg tggagtacgg    480
cgccgagggc cgccacaact ccaccatcga tgtgggcggc cagaagtttg tggtgctgcc    540
cacgggtgac gtgtggtcgc ggcccgacgg ctcctacctc aataagctgc tcatcacccg    600
tgcccgccag gacgatgcgg gcatgtacat ctgccttggc gccaacacca tgggctacag    660
cttccgcagc gccttcctca ccgtgctgcc agacccaaaa ccgccagggc cacctgtggc    720
ctcctcgtcc tcggccacta gcctgccgtg gcccgtggtc atcggcatcc cagccggcgc    780
tgtcttcatc ctgggcaccc tgctcctgtg gctttgccag gcccagaaga gccgtgcac     840
ccccgcgcct gcccctcccc tgcctgggca ccgccgccg gggacggccc gcgaccgcag    900
cggagacaag gaccttccct cgttggccgc cctcagcgct ggccctggtg tggggctgtg    960
tgaggagcat gggtctccgg cagcccccca gcacttactg gcccaggcc cagttgctgg   1020
ccctaagttg taccccaaac tctacacagg acattccaca ccacacacat acacacaccc   1080
cccaccctcc tgccaattaa acagtagcca ttccccnaaa atnnnnnnnn nnnnnnncnn   1140
nnnnnnnnnn nnnnnctcgg cccccgccta ttcaccg                           1177
```



```
<210> 2674
<211> 1655
<212> DNA
```

<400> 2674
tttcgtcacg gaggaggaag ccgccggtgc gtcgggacgg gagcgcaggt gctcgggcac   60
ccgagctgga gctccgcagc cgccggtcat gtaccgctcc accaagggcg cctccaaggc   120
gcgccgggac cagatcaacg ccgagatccg gaacctcaag gagctgctgc cgctggccga   180
agcggacaag gtccggctgt cctacctgca catcatgagc ctcgcctgca tctacactcg   240
caagggcgtc ttcttcgctg gtggcactcc tctggcgggc cccacggggc ttctctcagc   300
tcaagagctt gaggacatcg tagcggcact acccggcttt ctgcttgtgt tcacagccga   360
ggggaaattg ctctacctgt ctgagagtgt gagcgagcat ctgggccact ccatggtgga   420
cctggttgcc cagggtgaca gcatctacga catcattgac ccagctgacc acctcactgt   480
gcgccagcaa ctcaccctgc cctctgccct ggacactgat cgcctcttcc gctgccgctt   540
caacacctcc aagtccctca ggcgccagag tgcaggcaac aaactcgtgc ttattcgagg   600
ccgattccat gctcacccac ctggagccta ctgggcagga aatcccgtgt tcacagcttt   660
ctgtgcccct ctggagccga gaccccgccc aggtcctggc cctggccctg gccctgcctc   720
gctcttcctg gccatgttcc agagccgcca tgctaaagac ctggctctac tggacatctc   780
cgagagtgtc ctaatctacc tgggctttga gcgcagtgaa ctgctttgta aatcatggta   840
tggactgctg caccccgagg acctggccca cgcttctgct caacactacc gcctgttggc   900
tgagagtgga gatattcagg cagagatggt ggtgaggcta caggccaaga ctggaggctg   960
ggcatggatt tactgcctgt tatactcaaa aagtccagag ggacccatta ctgccaataa   1020
ctacccaatc agtgacatgg aagcctggaa cctccgccag cagttgaact ctgaagacac   1080
ccaggcagct tatgtcctgg gcactccgac catgctgccc tcattccctg aaaacattct   1140
ttcccaggaa gagtgctcca gcactaaccc actcttcacc gcagcactgg gggctcccag   1200
aagcaccagc ttccccagtg ctcctgaact gagtgttgtc tctgcatcag aagagcttcc   1260
ccgaccctcc aaagaactgg acttcagtta cctgacattc ccttctgggc ctgagccttc   1320
tctccaagca gaactaagca aggatcttgt gtgcactcca ccttacacgc cccatcagcc   1380
aggaggctgt gccttcctct tcagcctcca tgagcccttc cagacccatt tgcccacccc   1440
atccagcact cttcaagaac agctgactcc aagcactgcg accttctctg atcagttgac   1500
gcccagcagt gcaaccttcc cagatccact aactagccca ctgcaaggcc agttgactga   1560
aacctcggtc agaagctatg aagaccagtt gacaccctgc acctccacct tcccagacca   1620
tgtattgcgg ccgctcggag gatcaagcat acgac   1655

<400> 2675
```
acccgttacg acccacgcgt ccgccgagat cgctgtggca caagtgatcc ttatgtgaaa      60
tttaagctga atgggaagac gctgtacaaa agtaaagtca tatataagaa cttgaacccca     120
gtatgggatg agatagttgt attgccaatc caaagccttg atcaaaagct acgtgtgaag     180
gtatatgatc gagatttaac cacatctgat ttcatgggtt ctgcatttgt cattctcagt     240
gatcttgagc ttaacagaac aactgaacat attttaaaac tggaagatcc aaacagttta     300
gaagatgaca tgggagtgat cgtcttaaat ttgaacctag tggtaaaaca gggtgatttc     360
aagagacacc gttggtcaaa tcggaagcga ttaagtgcca gcaagtcctc tttgatacgc     420
aacctacggc tctctgagtc cttgaaaaag aaccaactct ggaacgggat tataagtata     480
actttgttgg aagggaagaa tgtctcagga ggaagcatga cagagatgtt tgtccagtta     540
aaactgggag atcagaggta taaaagtaag acactgtgta agagtgcaaa tccgcagtgg     600
caggaacagt ttgactttca ctacttctct gacaggatgg gcattttgga cattgaagtg     660
tggggaaagg acaacaaaaa gcatgaggaa cgtctgggca cgtgtaaagt ggatatctcg     720
gcactccctc tgaagcaagc caactgcctg gagctgccac tggacagctg tctggggggct    780
ctccttatgt tggtcacact tacaccctgt gcggggggtct ccgtctctga tctgtgtgtc    840
tgccccttag cagacctcag cgaaagaaag cagattaccc agcgatattg cttacagaac     900
tccctgaaag atgtgaaaga cgtcggcatt ctacaagtga aggttttaaa ggcagcagat     960
ctcttagcgg cagatttctc agggaagagt gacccatttt gcttgttgga gttaggcaat    1020
gaccgacttc agacgcatac cgtctacaaa aacctcaacc ctgaatggaa caaagttttt    1080
acatttccca ttaaagatat ccatgatgtt ttggaagtga cagtgtttga tgaagatgga    1140
gataaannnn nnnnnnnnnn nnnnnnnnnn nnnaaanaan naanaaaaan nnaaannnnn     1200
nnnnnnnnnn nnnnnnnnnn ngggcggcct tttaaaaaaa aacaattttt ttggcgcggg    1260
gtgggggga                                                            1268
```

<400> 2676
```
tgaattttca ttttacaggg aagtgtttgt ttatgtcagg gctcagtgag gtccagctga      60
cccatatgga tgatcacact ctaccagggt attgaagctc                           100
```

```
<210> 2677
<211> 636
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (349)...(637)
<223> similar to gi2981175 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters




    <400> 2677
ttgggcaagg agagaaagca cttacatcag accaagtttg ctgatgactt tagaaaaaga      60
catccaaatg tacactttgt gctaaatcaa gagtcaatga ctttgactgg tttgccaaat     120
caccttgcaa aggcgaagca gtatgttcta aaaggaggag gaatgtcttc attggctgga     180
aagaaattga aagagggtca tgaaacaccg atggacattg atagcgatga ttccaaagca     240
gcttctccgc cactcaaggg ctctgtgagt tctgaggcct cagaactgga caagaaggaa     300
aagggcatct gtgtcatctg tatggacacc attagtaaca aaaaagtgct accaaagtgc     360
aagcatgaat tctgcgcccc ttgtatcaac aaagccatgt catataagcc aatctgtccc     420
acatgccaga cttcctatgg tattcagaaa ggaaatcagc cagagggaag catggttttc     480
actgtttcaa gagactcact tccaggttat gagtcctttg gcaccattgt gattacttat     540
tctatgaaag caggcataca aacagaagaa cacccaaacc caggaaagag ataccctgga     600
atacagcgaa ctgcatactt gcctgataat aaggaa                              636




    <210> 2678
    <211> 1783
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (138)...(1657)
    <223> similar to gi2224699 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters




    <400> 2678
ctggcttgtc tggagccagc ctgtagggtt ggggagcctt tctctccata gttccagggt      60
ttggtgaagc atcttacacc agtaagtatt gattgaacgt ctgtcagtga cctctgcaaa     120
ctctgctttt gttgtaggaa gcagtacagg ttttgattaa gcactcagct gatgtcaatg     180
caagggacaa gaactggcag acccctcttc atgtggcagc agccaacaag gctgtcaaat     240
gtgcagaagt gatcattccc ctgctgagca gtgtcaatgt ctccgaccga ggggggcgca     300
cagccttgca ccatgcggct ctgaacggcc acgtggagat ggtcaattta ctcttggcca     360
aaggggcaaa tatcaatgca tttgacaaga aggaccggcg tgctctgcac tgggcagcat     420
acatgggcca cttggatgtt gtagcattgc tcattaacca tggcgcagaa gtgacctgta     480
aggataagaa gggttatacc cctctgcatg ctgcagcctc caatggacag attaatgttg     540
tcaagcatct cctgaacctg ggggtggaga ttgatgaaat caatgtctat ggaaatacag     600
cgcttcacat cgcctgctac aatggacagg atgctgtggt taacgagttg attgactacg     660
```

                                    1571

```
gtgctaacgt gaaccagcca aacaataatg ggttcacccc tttgcatttt gctgctgcct      720
ccactcatgg tgctttgtgt cttgaattgt tagtaaacaa cggggcagat gttaacattc      780
agagtaaaga tggcaaaagt ccactgcaca tgacagctgt ccatggaagg ttcacacggt      840
cacagaccct cattcagaat ggaggtgaaa ttgactgtgt ggataaggac ggcaacactc      900
ctctccatgt ggctgcaaga tacggtcatg agcttttgat taacacctta ataaccagcg      960
gagctgacac agccaagtgt ggaatccata gcatgttccc tttacattta gctgccctaa     1020
atgctcactc tgactgctgc agaaagttgt tatcatcggg acaaaagtat agcatagtat     1080
ccttgtttag taatgagcac gtgctgtctg caggctttga aatagacacc ccagataaat     1140
ttggaagaac gtgccttcat gctgctgctg caggaggtaa tgtggaatgt ataaaactct     1200
tgcagagcag cggagcagat ttccataaaa aggacaagtg tgggaggacc cctttgcact     1260
atgcagctgc gaattgtcat ttccactgta ttgagacatt agtgaccaca ggggccaacg     1320
ttaatgaaac agatgactgg ggacgcacag ctttgcatta cgccgctgca tcagacatgg     1380
atagaaataa gactatctta ggaaatgccc atgataattc agaagaactt gaaagagcca     1440
gggagctgaa ggaaaaggaa gccacactat gtctagagtt tctgcttcaa aatgatgcaa     1500
atccatctat ccgggacaag gaaggttaca atagcataca ttatgctgcc gcctatgggc     1560
acaggcagtg tctggaattg cttttggaaa gaacaaacag tggatttgaa gaatcagatt     1620
ctggtgctac taagagtcca ctccacttag ctgtaagtga gatgccatga gcagcttcac     1680
ctgttacaaa aacaacctaa gcattcctaa aactagattg ctcttaaaat gtaaatgtag     1740
taacacagtg atgagtggta gtgaaagtag tccgtggtaa aag                       1783



        <210> 2679
        <211> 389
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (107)...(199)
        <223> similar to gi285983 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters



        <400> 2679
gcccagccca cggtagagaa atgtccagca ccaattctgt tcaagtgtga tcaggtcaaa       60
gtgtgtgcta gagcacaggg gagttctgaa ccaggattgc ccccgacagg tcactcagct      120
ctatgtgcca gcatccagac atgtgtggag gttccggcgg atggggagga taggcccgct      180
gcagtccacc ctggacggtg agttctctag gacacagggt tactgaggta tgaattacat      240
gctgtcaaat tcactccttt aatctacaga tctgttattt ttcataaact tatacagcca      300
tgtcactccc agcaggagct accatgtaga aaagtttcat cacccacaaa attgcctcta      360
gctccattgc ggccacctct tcagcagcc                                        389
```


        <210> 2680
        <211> 406
        <212> DNA
        <213> Homo sapiens

        <220>

                        1572

<221> misc_feature
<222> (98)...(408)
<223> similar to gi3882183 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2680
cggcacgagc ggcacgagag tcagagggtt ttaatttact tgtgaagctc acactattga   60
aactaattgc aatgcttgac tttattttct ttagagtcca agaaagagaa aaacaaggca   120
tagcacaaat cccectctag agtgtcatgt tggttgggta atggattcca gagaccatgg   180
gccaggaaca tcctctgtca gcacttcaaa tgcttcacct tcagaaggcg caccactagc   240
aggaagttat ggatgtactc ctcattcatt cccaaagttc cagcatcctt ctcatgaact   300
tttgaaggaa aatggcttta cccaacaagt gtaccacaag tatcgtcgaa gatgcctaag   360
tgagagaaaa cgcttgggaa ttggtcagtc ccaagaaatg aatacc   406

<210> 2681
<211> 382
<212> DNA
<213> Homo sapiens.

<220>
<221> misc_feature.
<222> (2)...(384)
<223> similar to gi1136418 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2681
aatagacagg ctacgcctgg acaaatacta tatgctgatt cgtctggtcc tgaggcagtc   60
ctttgaagtc ttgaagcgaa atggctggga agaaagccga atcaaggttt tcttggatgt   120
cctgatgaag gaggtcctgt gtcctgagag tcagtctcct aatggagtga gattccactt   180
cattgatatt tacctggatg aactctccaa agtcgggggg aaggagcttt tagcagatca   240
gaatctcaag tttatcgatc cattctgcaa aattgctgca aagacgaagg accacaccct   300
ggtacagacc atagctcggg gtgtcttcga agctatcgta gatcagtctc cttttgtgcc   360
tgaagagacg atggaggaac aa   382

<210> 2682
<211> 359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)...(360)
<223> similar to gi1841756 in the genepept database release 114,

1573

<400> 2682
```
cccggcagcg gcggcagcgc gggggggccga gacggcagtg cctaccaggg cgcgctgttg    60
cctcgagaac agttcgcggc cccgcttggg cggccggtgg ggacctcgta ctccgccacc   120
tacccggcct acgtgagccc cgacgtggcc cagtcctgga ctgccgggcc cttcgatggc   180
agcgtcctgc acggcctccc aggccgcagg cccaccttcg tgtccgactt cttggaggag   240
ttcccgggtg agggtcgtga gtgtgtcaac tgcggggccc tgtccacacc gctgtggcgc   300
cgagatggca ccggccacta cctgtgcaat gcctgcggcc tctaccacaa gatgaatgg    359
```

<210> 2683
<211> 385
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (209)...(381)
<223> similar to gi2197085 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2683
```
cctgatgcta tcttttgaca cagtcatatc ttgtttgtat attttaccat tagaaatatt    60
cttgttgaag tcaaaataaa atataaagac aaatctccaa atttaaagca ttttatttgg   120
gaagcaagaa ttgcaattca ggacatattg gtaggtggtg gtcttcagta tgttcaaaga   180
acaaagagaa ggttgggagt tttattagaa agaaaaattt gggggaaagg acttcctatt   240
caataaatgg tactgggata actggctagc tatatgcgga agattgaaac tggacccctt   300
acttacacca tatacaaaaa tcaactcaag atggactgaa gacctcaatg taaaacctaa   360
aactgtaaag actctggaac ctaaa                                        385
```

<210> 2684
<211> 954
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (50)...(239)
<223> similar to gi595481 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2684

```
cccagatcat cgacatggtg cgttgtggtg gtggtacagc tgtggagtct tacctgtcac      60
agtgtcaaga aatgaagggg atgaacggaa ccaggtgctg accctgtatc tgtggatacg     120
gcaggagtgg acagatgcct acctacgatg ggaccccaat gcctatggtg gcctggatgc     180
catccgcatc cccagcagtc ttgtgtggcg gccagacatc gtactctata acaagtactg     240
cctatctggg cccctcctct ctcttacccc tctctagact tgcccttagc tgtgggggtg     300
tagtgatccc ctctccctac cacataacct ggttgccacg ctgccctgga agctttttccc     360
caggacccctt ctaagctgcc aagcactcag cccctccatg gcacccccac tttaggctat     420
cccaggccag cccaggctga acgtctcctc ggaacctact gtgtggtcca gggcagatgt     480
ctgaatcaca agggcctctc tagggcacac ttttagctct aagtctctca gggctccccc     540
aagagcctgt ctaagggtct cttttcctcca ggacatagcc ctctggaaca ctgctttatg     600
tctccttgac cagttccgtg tctcccagcc agcacatagc tctgcatatt ttctctgggg     660
cccttctaca agttttgcag atgtccccca agggaagtca ctgtgtgtcc cggagctacc     720
tctgggttct gcagaggcct ttttatacat cctctggcta cgtctgtgtc ccttctggcg     780
ccttcaggca ccacccccttc caggcctcga aaggcagcgg gtctctctag gtgcactcca     840
ccctctgtgt tgctttgttc tgaaaacaag aatcaaatta cgaaaaaaaa aacaagcaca     900
agtttatttta tttatttgag acacagcctg ggcaagagag tgagacttca tctc           954
```


<210> 2685
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (158)...(374)
<223> similar to gi1477565 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2685

```
tcaaaaaaag taataataaa taaaataaat gtttatctta gaatagattc atatgaaatg      60
tcagaatttt ctaagtgtta aaaatactgt ttttggcata cagagtttca tcatgtctga     120
gttaagtgaa gaactctaaa atatgttttt ttccatcaag cttcgtttag aggcacttca     180
tcagatcctc gttctattgt ctgggatgga agaaaaaggt agcatctcac tggcaggaag     240
cagattgagt tcaggcttcc agtcctccac actactcacg tctgtgaggc tgcagttcct     300
agcagggtgt tttggtttag gcactgttgg tctcacagga gccaagggag agagtggccg     360
tttgcatcac ctacc                                                     375
```


<210> 2686
<211> 537
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
```

<222> (1)...(538)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3)...(534)
<223> similar to gi984585 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 2686
acaacgggga tatcgggcat gacgtgcgta accagctgct ggcaagcccg tcggtgctct    60
acaccgccac cgggattatg ttcgcgctgg cgggggtacc gggaatgccg cacctgccgt    120
ttttgctgtt cagcgccctg cttggtttta ccggctggcg gatgagcaaa cagccgctgg    180
cggcggaggc ggaagagaaa agcctcgaaa cgctgacccg caccatcacc gaaaccagcg    240
agcagcaggt cagttgggaa accattccgc tgatcgagcc tatcagttta agcctcggtt    300
acaaactggt ggcgctggtg gacaaagcac agggtaaccc gctcacccag cggattcgcg    360
gcgtgcggca ggtgatttct gacggcaacg gcgtgctgct gccggagatc cgcattcggg    420
aaaacttccg ccttaagccc agtcagtacg ccattttcat caacggcata aaggctgatg    480
aagcggatat tccggcggat aacctgatgg ccctgccctc cacccaaacc tncgtct    537


<210> 2687
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (78)...(452)
<223> similar to gi1736497 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 2687
gatttaatgt ccgtacgccc tacaacacaa agagtgcgag aaaccctggc ggtaccacaa    60
gttaatcaga ctgtgcgcga catgtggcta ttctgggtga cctccagggg cccaaaatcc    120
gtgtatccac ctttaaagaa ggcaaagttt tcctcaatat tggggataaa ttcctgctcg    180
acgccaacct gggtaaaggt gaaggcgaca aagaaaagt cggtatcgac tacaaaggcc    240
tgcctgctga cgtcgtgcct ggtgacatcc tgctgctgga cgatggtcgc gtccagttaa    300
aagtactgga agttcagggc atgaaagtgt tcaccgaagt caccgtcggt ggtcccctct    360
ccaacaataa aggtatcaac aaacttggcg gcggtttgtc ggctgaagcg ctgaccgaaa    420
aagacaaagc agacattaag actgcggcg                                      449


<210> 2688
<211> 386

1576

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(387)
<223> similar to gi466625 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2688
```
acaagtacca gaccaaccta ttttggtgat accgatggct cagtcggtgc agttttgttc   60
gcgcttttcg caacgggaca tttgggaatc atggctgaag gagaaaattt ccttagccag   120
ttgcttaata tagaagatga agttctcaac gtattgctaa gggagaactt taatgagcaa   180
cttaacacta atgttaatac aataatcagt atcctgaaca gaagagacat tattttagaa   240
agtcttcagc cttatttagt tattaataaa gacgctgtga cgccatgtac gtttctgggc   300
gaccaaaccg gcgatcgatt tagcaatatc tgtggtgatc aatttatcat cgatttgtta   360
aaacgcataa tgagtatcaa tgaaag   386
```

<210> 2689
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(233)
<223> similar to gi145175 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2689
```
gaacaccttc ctgccaagtc cgggcaaaat cacccgtttc cacgcacctg gcggttttgg   60
cgtacgttgg gagtctcata tctacgcggg ctacaccgta ccgccgtact atgactcaat   120
gatcggtaag ctgatttgct acggtgaaaa ccgtgacgtg gcgattgccc gcatgaagaa   180
tgcgctgcag gagctgatca tcgacggtat caaaaccaac gttgatctgc a   231
```

<210> 2690
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(475)

<400> 2690
tcgccgattc gtcggtatcc agacctgacg ctgcaccgcg ccattaaata tctgctggcg      60
aaagagcagg ggcatcaggg caacaccact gaaaccggcg gctaccatta ttcgatggaa     120
gagatgctgc aactgggtca gcactgttcg atggcggaac gtcgtgccga cgaagcaacg     180
cgcgatgtgg ctgactggct gaagtgtgac ttcatgctcg accaggtagg taacgtcttt     240
aaaggcgtaa tttccagcgt cactggcttt ggcttcttcg tccgtctgga cgacttgttc     300
attgatggtc tggtccatgt ctcttcgctg gacaatgact actatcgctt tgaccaggta     360
gggcaacgcc tgatggggga atccagcggc cagacttatc gcctgggcga tcgcgtggta     420
gttcgcatgg aaactaataa tatgaacgac agcattttcc cattcagcct gatctgcggg     480
tacggacatt aaatccgata gcatggc                                         507




<210> 2691
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(461)

<400> 2691
tgttgcagcc aaaaggcaca ttgcgactgg ataaagacgc ccgtccattg ttgctgatcg      60
aagatccaga aacccgttta caccccatta tgctttcagt tgcctggcat ctgttgaatc     120
ttctgccatt gcagcgcatt gccaccacca actcgggtga gttgctttcg ttaacgccgg     180
tagagcatgt ttgccgactg gtacgtgagt cctcgcgcgt tgccgcctgg cgtctggggc     240
cgagtggctt gagtaccgaa gatagccgac gcatatcctt tcacattcgt tttaaccgtc     300
cgtcatcgct gtttgcacgc tgctggttgc tggtggaagg ggaaacggaa acctgggtta     360
tcaatgaact ggcgcgtcag tgcggacatc attttgatgc cgaagggatc aaggtcattg     420
agtttgccca gtccgggcta aagccactgg ttaaattt                             458




<210> 2692
<211> 344
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5)...(346)


1578

<400> 2692
cggaagcgaa ctgtttaggc gctgtgatac cgccgcgatg tctatcggcg cgttaagccc      60
ggaagcccac gaggcgctgg cggaagcgat gaacagcatc ggcggtaatt cgaactccgg     120
tgaaggcggc gaagacccgg cgcgctacgg caccaacaaa gtgtcgcgca tcaagcaggt     180
ggcttccggt cgctttgggg ttactccggc gtatctggtc aatgccgacg tcattcagat     240
taaagtcgcc cagggcgcga agccaggcga aggcggtcag ttgccgggtg ataaagtcac     300
gccttacatc gccaaactgc gctattcggt gcccggagtg accg                      344

<210> 2693
<211> 344
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(346)

<400> 2693
gccgttaaat cgtcgtatta ttaagcgata tcgggcgatt gtggtggggg atactgcgca      60
ggcaggcgct tctacggcat cacaacttct cgacgaacaa gaagccatta ccgtttcga     120
ttttaaaacc aaactggagc tgcaaattag cggcctcggc tgcggctatt taccccgtta     180
tctggcgcaa cgttttctcg atagtggcgc gttaatcgag aagaaagtgg tcgcccaaac     240
tctctttgaa cccgtctgga ttggctggaa cgaacagacc gcaggacttg ccagtggctg     300
gtggcgggat gaaatttag caaatagtgc gatcgccggt gttt                       344

<210> 2694
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(237)

<400> 2694

```
tggctgatgg gcgcattccg gtaattgccg ggaccggcgc taacgctact gcggaagcca      60
ttagcctgac gcagcgcttc aatgacagtg gtatcgtcgg ctgcctgacg gtaaccccctt     120
actacaatcg tccgtcgcaa gaaggtttgt atcagcattt caaagccatc gctgagcata     180
ctgacctgcc gcaaattggg tataatgagc cgtcccgcac tggctgcgat ctccgggtcc     240
gacgctggaa tgcgt                                                       255
```

<210> 2695
<211> 595
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(536)
<223> similar to gi1789764 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2695

```
tacgcactga ctggtgcgtt ggttattgtc accgggatgg tgatgggaaa tatcgccgat      60
tatttcaatc tgcctgtttc cagtatgagt aataccttca ccttcctcaa cgccggcatt     120
ttaatctcta tcttcctcaa cgcctggctg atggaaatcg tcccgttgaa aacgcagtta     180
cgttttggct ttctcctgat ggtgctggcg gttgccggtt tgatgttcag ccacagcctg     240
gcgctgttct cggcggcgat gttcattctc ggggtggtca gcggcatcac catgtcgatt     300
ggtacattcc tggtaacaca aatgtatgaa gggcgtcagc gcggttccg cctgttatt     360
accgactcct tcttcagtat ggctgggatg attttcccaa tgatcgccgc gtttctactg     420
gcgcgcagca ttgagtggta ctgggtttat gcctgcatcg ggctggtgta tgtcgctatt     480
tttattctga ccttcggctg tgagttcccg gcgctgtgca gccatgcgac taagttgggt     540
accgccagta gttatcccag tctggacgtt gtacagctac ggacattgaa tgcgt          595
```

<210> 2696
<211> 202
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(205)
<223> similar to gi146476 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2696

```
tcggtcagcc gctgtttgtg cgcgataacc gcacggtgac gctgactgaa gcgggcgaag     60
agctgcgcgt tttcgcccag caaacgctgt tgcagtatca gcagttgcgc cacaccatcg    120
atcagcaagg gccgtcgctc tctggcgaat tacatatctt ctgctcggtg accgctgcct    180
acagccatct gccgccgatt ct                                             202
```

```
<210> 2697
<211> 552
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(553)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2)...(552)
<223> similar to gi349229 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters
```

```
<400> 2697
tcttgaagag ccgctgctga tcaacaccag cttaagcaaa gaacagcgtc gggaaaaagc     60
cctgtcgatg atggcgaaag tcggcctgaa aaccgagcac tatgaccgct atccgcatat    120
gttctccggc ggtcagcgtc agcgtatcgc catcgcccgt ggtctgatgc tcgacccgga    180
tgtggtgatt gccgatgaac cggtttccgc gctggatgtt tcagtgcgcg cgcaggtgct    240
gaatctgatg atggatttgc agcaggagtt ggggctgtct tatgtcttta tctcccacga    300
cctgtcggtg gtggagcaca ttgctgatga agtgatggtg atgtacctgg gccgctgcgt    360
ggagaaggga acgaaagacc aaatcttcaa taacccgcgc catccgtaca ctcaggcgct    420
actttccgcg acgccgcgcc tgaacccgga cgatcgccgc gagcgcatca agctcagcgg    480
tgaactacca agcccactga atccaccgcc gggttgcgcc ttcaacgccc gctgttgtcg    540
gcgnttcggc cc                                                        552
```

```
<210> 2698
<211> 426
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(425)
<223> similar to gi4062194 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2698
tagcgccacc cttgaacggg tactaaatca ccctgacgaa acgcaagccc gacgcttaat      60
gacgctggaa gatatcgtca gtggttattc caatgtgttg atttccctgg cagatagtca     120
gggtaaaacg gtgtatcact cccccggtgc gccggatatc cgcgagttta cgcgtgacgc     180
catacccgat aaagacgctc agggtggcga ggtgtatctc ctttccggcc cgacgatgat     240
gatgccaggc cacggtcacg ggcatatgga acacagcaac tggcggatga ttaacttgcc     300
ggttggcccg ttggtggacg gcaaaccgat ttatacgctc tacatcgcgc tttcgatcga     360
ttttcatctt cattacataa atgatttgat gaataaactt attatgaccg catcggtaat     420
                                                                      426
catcat
```

```
        <210> 2699
        <211> 353
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(150)
        <223> similar to gi407097 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2699
attccgtaca cgcacttcga cgtccagttt ttggagaagt ttggggtcac cttcaggagg      60
gaaggcgaga cggtcactct caagtgcacc atgctggtga cgccggacct gaagcgggtg     120
cagccgcgcg ccgagtggta ccgcgatggt gagtaggaca cggcccagac ccgggcacac     180
accaggaggc ttttggacgg aaatgtcctt taaatgtggg tgtcaatgtg gcttttgtct     240
ctaccactgg gtcagctcca gacagcgaaa caaactgagg gactgtagag gacttggtgg     300
cccaccgttc gccttgaact tcatccagga gaatcctgga gagggagacc ccg            353
```

```
        <210> 2700
        <211> 340
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3)...(343)
        <223> similar to gi529240 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2700
gggtgctggc gtatccgggg attaaagtct cgacggcaga agccagggct attttaccgg      60
```

```
cgcagtatcg ccgccaggat tgcattgcgc acgggcgaca tctggcaggc ttcattcacg     120
cctgctattc ccgtcagcct gagcttgccg cgaagctgat gaaagatgtt atcgctgaac     180
cctaccgtga acggttactg ccaggcttcc ggcaggcgcg gcaggcggtc gcggaaatcg     240
gcgcggtagc gagcggtatc tccggctccg gcccgacctt gttcgctctg tgtgacaagc     300
cggaaaccgc ccagcgcgtt gccgactggt tgggtaaaat                          340
```

<210> 2701
<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(337)
<223> similar to gi1799796 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 2701
gccagcaggg cgcaaaaaaa gcctctttttg acaccattgt cgccagtggc tggcgtgggg     60
cgctgccgca cggcaaagcc agcgacaaga ttgttgcagc gggcgagttt gtcactctcg     120
atttcggtgc gctgtatcag ggctactgct ctgatatgac gcgcaccttg ctggtgaatg     180
gcgaagggggt gagcgccgaa tctcacctgc tgtttaacgt ctatcaaatt gtcctgcagg     240
cacagctcgc agcaatctcc gcgattcgcc ccggcgtgcg ctgccagcag gtttacgatg     300
ccgcgcgccg ggtcattaca caagcaggtt atgg                                 334
```

<210> 2702
<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(436)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (48)...(426)
<223> similar to gi41228 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 2702
actgtccgtc cgctgtacat cgtgaggact gggacattct tggtgttacc caccttactc     60
```

```
accttgcaca gcaaggctgg gcactgaact gctataccta cttcggcgaa ctgagtcgca    120
tgacgcagtt taaagataaa tctgcgcgtt atgccgagaa catcaacgct ggtctgtttg    180
actatccggt gctgatggca gcggacatcc tgctgtatca aactaannnn nnnnnnnnnn    240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn    300
nnnnnnnnnn nnnntttaag gtgccggagc cgtttattcc gaaatctggc gcgcgcgtaa    360
tgtcgctgct ggagccgacc aataagatgt ccaagtctta cgatggtcgc aatcacgtta    420
tctggcctgc tggac                                                     435
```

```
<400> 2703
tgacccgatt acggtttcac tgtccgtccc cttacatcgc cgggaccgag aaaaccctgg    60
tgttccccga cttatacgcc ccgctgaaca ttttacaaca gggccatgcc agtgtgctgg    120
cgcatccgca gctgcgtgag cgggcagtgg cggtttcttc atttggcaag acctatcata    180
tgaccggctg gaaagtgggt tattgtgttg cgccagcgcc catcagcgcc gaaattcgca    240
aggtacatca gtatctgacc ttttcggtga ataccccggc acagctggcg cttgctgata    300
tgctacgtgc agaacctgag cattatcttg cgttaccgga cttttatcgc cagaagcgcg    360
atattctggt gaatgcttta aatgaaagcc ggctggagat tttaccgtgt gaaggtacat    420
acttttttgct ggtggattac agcgcggttt ctaccctgga tgatcctgag tttccccagt    480
g                                                                    481
```

```
<400> 2704
cgggcagcag cagcgcgtgg cgctggcccg cgcgctgatc ctcaagccga aagtgctgct    60
```

```
gtttgatgag ccgttgagta acctcgacgc caacctgcgt cgcagcatgc gcgacaagat    120
ccgcgagttg caaaagcagt ttgatatcac ctcgctgtac gtcacccacg atcagagcga    180
agcctttgcg gtttctgata ctgtgctggt gatgaacaag gggcacatca tgcagatcgg    240
ctcaccgcag gatctccggg tacggagatt gaattggtaa t                       281
```


        <210> 2705
        <211> 427
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (4)...(428)
        <223> similar to gi1736441 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 2705
```
aatatggctc tcacgccgct cagcgtggcg gataaatgca aagagttaat ggcgcaaaaa     60
cccggtagct ggatcttcac ctcagcaacg ctgtcggtga acgacgatct gcatcatttc    120
acctcgcggc ttggcatcga acaggccgag tcgttgctgt tgcccagccc atttgattac    180
agccgccagg cgttactctg tgtgctgcgc aatctgccgc aaaccaacca gccaggttct    240
gctcgccagt tagcggcaat gctgcgaccg atcatcgaag ctaacaacgg tcgttgtttt    300
atgctttgta cctcgcacgc catgatgcgc gatctggccg agcagttccg cgctaccatg    360
acgcttcctg tattgttgca gggggaaacc agcaaagggc aactgttgca gcaatttgtc    420
agcgccg                                                             427
```


        <210> 2706
        <211> 399
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3)...(402)
        <223> similar to gi145763 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 2706
```
tggctgaatc ccgcgtcttt aaaattgccg aaagtcgtgc gaacaaagac gaagggccga     60
agaacatcgc cgatgtgctc gacgcaaccg tggcgcgtat tgagcagttg tttcagcagc    120
cacacgatgg cgttaccggg gtaaacaccg gttatgacga tctcaacaaa aaaaccgctg    180
gcttgcagcc gtcggatttg atcatcgtcg ccgcgcgtcc gtcgatgggt aaaacaacat    240
ttgcgatgaa cctcgtcgaa aacgcggcga tgttgcagga taaaccggta cttatcttct    300
```


                                    1585
```

```
cgctggagat gccatcagaa cagatcatga tgcgttctct ggcgtcgctg tcgcgcgttg      360
accagactaa aatccgtacc gggcagctcg atgacgaaa                             399
```


```
<210> 2707
<211> 367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(364)
<223> similar to gi1742778 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```


```
     <400> 2707
gtgccggatg taaaaacatg cccggcgggc gtctttatgc ccacacactt gaagcaatca      60
ttccaggctt tgcagtatca gcgccggtag aacgcaaggt cacacgcgag aaaatctcct     120
tcttaaccga agaaagcgcc gttaccctcg attttcaccg cgagcagcca gatgttccgc     180
aacacgcatc ttataccgta ttgcgtaatc gtctggaccc gtggttgatg gaacaagccg     240
agcaggcggg cgcgcagttt atcccaggcg ttcgcgtcga cgcgctggtt cgtgaaggaa     300
acaaggtcac tggcgtgcag gctggggatg atattctcca agcgaatgtg gtgattctgg     360
ttgtgcc                                                                367
```


```
<210> 2708
<211> 423
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(425)
<223> similar to gi145300 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```


```
     <400> 2708
atctctggaa gactacgttt cccgcatgaa agaagggcag gagaaaatct actacatcac      60
cgcagacagc tatgcggcag cgaagagcag cccgcacctg gaactgctgc gtaagaaagg     120
catcgaagtt ctgctgcttt ccgaccgcat cgatgagtgg atgatgaact atctgactga     180
gttcgacggt aaaccgttcc agtcggtgtc taaagttgac gagtcgcttg aaaaactggc     240
tgacgaagtt gatgagagcg cgaaagaagc ggagaaagca ctgactccgt tcatcgaccg     300
tgtgaaagcc ctgctcggcg agcgcgtgaa agatgtccgt ctgactcacc gtctgaccga     360
tacgccagcg atcgtttcga ccgacgcgga cgaaatgagc actcagacgg cgaaactgtt     420
cgt                                                                    423
```

1586

<210> 2709
<211> 451
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5)...(450)
<223> similar to gi396415 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2709
```
gtcatcgacc atgactacgg attctatgcg ccgacccgga caacggcgag acatgcacta      60
ccctggccat gcccaattta atcacgtgga atcccagcgg gcgttgttct atccgagctt     120
tgatatcaaa gcgttttttcg gtctggactc catccatctg cataccttat tcaaaaaaac     180
cagtcgccag ttcaacttca tcccgggtct gaaattgccg ctgtttgacg gtggacggtt     240
gaatgccaat ctcgaaggca cgcgcgccgc cagcaacatg atgattgaac gttacaacca     300
gtcagtactg aacgcggtgc gtgacgttgc cgtcaacggc acgcgtctgc aaacgctcaa     360
cgacgagcga gaaatgcagg ctgaacgcgt ggaagccacg cgctttaccc agcgcgctgc     420
cgagcccgcc tatcagcgcg gcctaaccag g                                    451
```


<210> 2710
<211> 493
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(496)
<223> similar to gi2367256 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2710
```
atagtttttac tgccctggag cgcaatggcc agacggtagt tacctggaac cgggacggcg      60
gcacaagtac tgaacaggcg tataaaaata tcccgttcta catgactaac cgtggttatg     120
gggtactggt caatcatccc cagtgtgtct cttttgaagt gggatcggag aaagtctcca     180
aagtgcagtt cagcgttgag agtgaatatc tcgaatactt tgttatcgac ggcccgacgc     240
cgaaagcggt acttgatcgt tatacccgct ttactggtcg tccggcgctg ccgcccgcgt     300
ggtccttcgg cctgtggcta accacttcat ttaccaccaa ctacgacgaa gcgacggtaa     360
acagctttat cgatggtatg gcggaacgca atctgccgct gcatgttttc cactttgact     420
gtttctggat gaaagccttc cagtggtgcg attttgagtg ggacccgctg actttccctg     480
acccggaagg gat                                                       493
```

<210> 2711
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (29)...(426)
<223> similar to gi147485 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2711
tacaattcaa tttcggtacc cgtacaaccc ggcgagcgtg attggcctga cagtccccaa   60
cttaatcatt gtgctgctga ttgaacggat gctcgacgac aaacgcattc ttgcgcatat   120
tcgcgcctcg aaagcgccaa aacctggcgc agaactgctg ctgggcgatg acgaaagtat   180
taacgcaaca atgaccgcgc gccacggcgc actgtttgaa gtcgaattta atgatgaacg   240
ctcggtgctg gatattctca acagcatcgg ccatatgccg ctgccgccgt atatcgaccg   300
tccggacgaa gacgctgacc gcgaacttta tcaaaccgtt tatagcgaaa aaccgggcgc   360
ggttgcagcc ccgaccgcag gtctgcattt tgacgagcct ttgctggaaa aattgcgcgc   420
caaa   424

<210> 2712
<211> 155
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(158)
<223> similar to gi1789672 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2712
tggcggtgca ttacctagag cgggtgagaa ttgccgaaca tgcgcataag tttcccggac   60
agatttcagg tggtcagcag caacgcgttg ccattgcgcg ttcgctgtgt atgaagccga   120
aaattatgtt gtttgatgag ccaacgtcgg cgctc   155

<210> 2713

1588

```
<211> 325
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (24)...(328)
<223> similar to gi290559 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 2713
cgaattcgat ctccgtaccc ggagatctca atgtgtggct ttgcctggga ctgctgatgc    60
ttgatcgcat tgcaaccaaa gcggcgaagc ggataaacgt gacaccttcg gcggtgagta   120
agtcgctggc aaagttaaga gcgtggtttg acgacccgct ctttgtgaac tcaccgctgg   180
gtctgtcgcc cacaccgctg atggtcagca tggagcaaaa tctggcggag tggatgcaaa   240
tgagcaacct gctgctggat aaaccgcacc accagacacc gcgcggcctg aagtttgagc   300
tggcggcgga atcaccgctg atgat                                         325




<210> 2714
<211> 209
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(212)
<223> similar to gi2337774 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 2714
gactgactat cgcaccgaat ttactgaagg agctgcagga aaaagtttcg ccagtggtac    60
gtaaattaat cccaccttct cagacgttcc cacgcccagc tcccatgagc gaagcggagt   120
tccgttggga gcacaatcag gatgcgatgg cggtagaaaa actgtctgaa ggcattcgtc   180
tgttcgccgt tgatcaacgc aaactggaa                                     209




<210> 2715
<211> 497
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(498)
```

<223> similar to gi535006 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2715
gacaaagaag aatatccgca atccgcagcc atcgacctgc gttgcgtaaa tatggttgcc   60
gatctgtggc atgcgcctgc gccgaaaaat ggtcaggccg ttggcaccaa caccattggt   120
tcttccgagg cctgtatgct cggcgggatg gcgatgaaat ggcgttggcg caagcgtatg   180
gaagctgcag gcaaaccaac ggataaacca aacctggtgt gcggtccggt acaaatctgc   240
tggcataaat tcgcccgcta ctgggatgtg gagctgcgtg agatccctat gcgccccggt   300
cagttgttta tggacccgaa acgcatgatt gaagcctgtg acgaaaacac catcggcgtg   360
gtgccgactt tcggcgtgac ctacaccggt aactatgagt tcccacaacc ggtgctcgat   420
gcgctggata aattccaggc cgacaccggt atcgacatcg acatgcacat cgacgctgcc   480
accggtggct tcctggc   497

<210> 2716
<211> 217
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(218)
<223> similar to gi4062409 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2716
gctccctatg acgccgaaaa ttattttgat tatgacaatc tgaataacgg accttctttg   60
cagcactggt ttggcgtcga ttcactgggg cgtgacattt tcagccgtgt cctggttggt   120
gcgcaaatct cgctggcggc gggcgtgttt gccgtgtttta tcggtgcggc gatcgggacg   180
ttgctgggct tgctcgctgg atattatgaa ggctggt   217

<210> 2717
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(434)
<223> similar to gi2443392 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

```
    <400> 2717
cttgtcgttc tggcaaaact aacctctgtg ttgcggttcg cgaaacccag ggtaaaggcc        60
tgatgccaga cggcaccacc cgtttttctt acaacgggca gccgctttat cactacatgg       120
ggtgctctac attcagtgaa tacaccgtag tcgcggaagt gtctctggca aaaattaatc       180
cagaagcaaa ccatgaacac gtctgcctgc tgggctgtgg cgtgaccacc ggtattggcg       240
cggtacacaa cacagctaaa gtccagccag gtgattctgt tgccgtgttt ggtcttggcg       300
cgattggtct ggcagtggtt cagggcgcgc gtcaggcgaa agcgggtcgg attatcgcta       360
tcgataccaa cccgaagaaa ttcgatctgg cgcgtcgctt cggtgctacc gactgcatta       420
acccgaatga g                                                             431
```

    <210> 2718
    <211> 315
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (2)...(317)
    <223> similar to gi4062680 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters

```
    <400> 2718
gtacgacggc atcatggcaa ctgactcaac acaatgtgta aaaaaaagcc gtggccgccc        60
aaaagtgttc gacagggatg ccgcgcttga taaggccatg aaattgttct ggcaacacgg       120
ttatgaagcg acttctcttg cggacctcgt cgaagcgacc ggagccaaag cgcccacgct       180
atacgcggaa tttaccaaca aagaggggtt atttcgtgcc gttctcgacc gctatatcta       240
tcgttttgcc gctaagcatg aagcacagct gttttgtaaa gagaaaaacg tggagtttgc       300
gctggctgac tattt                                                         315
```

    <210> 2719
    <211> 568
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (3)...(571)
    <223> similar to gi2995439 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters

    <400> 2719

```
aggtattctg tctgatcgct gaccttgacc cgatcgatga gcttgtggac ttcccgatcg      60
tttacgcttc tgcgctgaac ggtatcgcgg gtctggacca cgaagatatg gcggaagaca     120
tgaccccgct gtaccaggcg attgttgacc acgttcctgc gccggacgtt gaccttgacg     180
gtccgttcca gatgcagatt tctcagctcg attacaacag ctatgttggc gttatcggca     240
ttggccgcat caagcgcggt aaagtgaagc cgaaccagca ggtcactatc atcgatagcg     300
aaggcaaaac ccgcaacgcg aaagtcggta aagtgctggg ccacctcggt ctggaacgta     360
tcgaaaccga tctggcggaa gctggcgata tcgttgcgat cacgggcctt ggcgaactga     420
acatttctga caccgtttgc gacacgcaaa acgttgaagc gctgccggca ctctccgttg     480
atgagccgac cgtttctatg ttcttctgcg ttaacacctc gccgttctgc ggtaaagaag     540
gtaagttcgt aacgtctcgt cagatcct                                        568
```


        <210> 2720
        <211> 402
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2)...(404)
        <223> similar to gi42996 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters

        <400> 2720
```
agaaaaaggt ttcactcgcc cgccggccat tcaggatcca gccattacgc atgcgctcga      60
tggccgtgat gtactcggtt ttgcgccaca aggcaccggt aaaacggcgg cgtatctgct     120
gccagcgttg cagcacctgc tcgatttccc gcgtaagaaa tccggtccgc cgcgtatttt     180
gatcctcacc ccaactcgcg agctggcgat gcaggtgtcc gatcatgccc gcgaactggc     240
gaaacatacg catctggata tcgccaccat caccggcggc gtagcctata tgaaccacgc     300
ggaagtgttc agcgaaaatc aggacatcgt ggtcgccacg accggacgtc tgctgcaata     360
cataaaagaa gagaacttcg attgccgcgc ggttgaaacg ct                        402
```


        <210> 2721
        <211> 448
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3)...(451)
        <223> similar to gi216463 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters

        <400> 2721
```
```

```
gccgcaattt gcacgcgctg gcgttaaata tttttcaaaga tgaaggccgc gaagcgtttc    60
tgaaattaat ggaaaccacc gatatcttca tcgaagccag taaaggtccg gcctttgccc   120
gtcgtggcat taccgatgaa gtactgtggc agcacaaccc gaaactggtt atcgctcacc   180
tgtccggttt tggtcagtac ggcaccgagg agtacaccaa tcttccggcc tataacacta   240
tcgcccaggc ctttagtggt tacctgattc agaacggtga tgttgaccag ccaatgcctg   300
ccttcccgta taccgccgat tacttttctg gcctgaccgc caccacggcg gcgctggcag   360
cactgcataa agtgcgtgaa accggtaaag gcgaaagtat cgacatcgcc atgtatgaag   420
tgatgctgcg tatgggccag tacttcat                                      448
```

```
        <400> 2722
aacaactacg ctaaacaaat tgccagcctg aacgatcaaa tctcgcgcct gacaggcgtg    60
ggggcagggg cgtcacctaa caatctgctg gatcaacgcg atcaactggt gagcgaatta   120
aaccagattg ttggtgtaga agtcagcgtt caggatggcg gcacttataa catcacgatg   180
gccaatggtt actcactggt tcagggaagt acggcgcggc aactggcggc agttccttcc   240
agcgctgacc cttctcgtac gactgtcgct tatgttgatg ggacggcagg caatattga    299
```

```
        <400> 2723
gggggtacgc tttccggtaa cccgattgcg atggcagcgg gtttcgcctg tctgaatgaa    60
gtcgcgcagc cgggcgttca cgaaacgctg gatgagctga caacacgtct ggcagaaggt   120
ctgctggaag cggcagaaga agccggaatt ccgctggtcg ttaaccacgt tggcggcatg   180
ttcggtattt tctttaccga cgccgagtcc gtgacgtgct atcaggatgt gatggcctgt   240
```

```
gacgtggaac gctttaagcg tttcttccat atgatgctgg acgaaggtgt ttacctggca      300
ccgtcagcgt ttgaagcggg ctttatgtcc gtggcgcaca gcatg                      345
```

```
        <210> 2724
        <211> 366
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(367)
        <223> similar to gi145856 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2724
caaggcaccc gcgctgaatc tcaaggttcc tccaaagata aaacccgtct tgccttcgct        60
ggcctgaaat tcggtgacta cggctccatc gattacggcc gtaactacgg tgtagcatac       120
gacatcggtg cgtggactga cgtcctgcca gaattcggtg gtgacacttg gactcaaacc       180
gacgtgttca tgactcaacg tgcaactggt gttgcaacct atcgtaacaa cgacttcttt       240
ggtctggttg atggtctgaa ctttgctgct cagtaccaag gcaaaaacga tcgtagcgat       300
ttcgataact acactgaagg taacggccac ggcttcggtt tctctgctac ctatgaatac       360
gaaggg                                                                  366
```

```
        <210> 2725
        <211> 199
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3)...(202)
        <223> similar to gi1789473 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2725
gcgataccta ttccgtttct attccgctgg gagccaccat caatatggcg ggcgcagcaa        60
tcactattac cgtgttgacg ctggctgcgg ttaatacgct gggtattccg gtcgatctgc       120
ccacggcgct gctgttgagc gtggtggctt ctctgtgtgc ctgtggcgca tccggcgtgg       180
cggggggtc tctgctgct                                                     199
```

```
<210> 2726
<211> 554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(556)
<223> similar to gi288533 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 2726
cgccatgatg gcggacctga cggaagaaca gaaagcgcac ggcgtgatca ctgcttctgc      60
gggtaaccac gcgcagggcg tcgcgttttc ttctgcgcgg ttaggcgtga aggccctgat     120
cgttatgcca accgccaccg ccgacatcaa agtcgacgcg gtgcgcggct tcggcggcga     180
agtgctgctc cacggcgcga actttgatga agcgaaagcc aaagcgatcg aactgtcaca     240
gcagcagggg ttcacctggg tgccgccgtt cgaccatccg atggtgattg ccgggcaagg     300
cacgctggcg ctggaactgc tccagcagga cgcccatctc gaccgcgtat ttgtgccagt     360
cggcggcggc ggtctggctg ctggcgtggc ggtgctgatc aaacaactga tgccgcaaat     420
caaagtgatc gccgtagaag cggaagactc cgcctgcctg aaagcagcgc tggatgcggg     480
tcatccggtt gatctgccgc gcgtagggct atttgctgaa ggcgtagcgg taaaccgcat     540
cggtgacgaa actt                                                       554
```

```
<210> 2727
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(412)
<223> similar to gi1736642 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 2727
ataagattga taaggaccgt tatctctccg gcaatcctat cgaggtgacg gtagaactga      60
gagatgaaaa tgacaaacct gttaaggaac aaaaacagca actgaataac gcagtcagca     120
tcgacaacgt gaaaccagga gtcactacag actggaaaga aaccgcagat ggcgtctata     180
aggcgaccta taccgcctat accaaaggca gtggacttac tgcgaagcta ttaatgcaaa     240
actggaatga agatttgcat accgctggat ttatcatcga cgccaacccg cagtcagcga     300
aaattgcgac attatctgcc agcaataatg gtgtgctcgc caatgagaat gctgcaccgc     360
aagtctcgta cgatgggtat catcagggta ttcccactct cgacgatgta cgggtacgga     420
cattgaatcc gtaagcagg                                                  439
```

1595

<210> 2728
<211> 140
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(141)
<223> similar to gil805561 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2728
gccaacgcgc agcaagggct gcccagtggt atcaccctga agctaaataa ccttgtcgat   60
aaaggcctgg ttgatcgtct gtatgcggcc tccagctcgg gcgttccggt taatctgctg   120
gttcgcggaa cgtgttcgct   140

<210> 2729
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(428)
<223> similar to gi43248 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2729
cgcgcgaatg acgctcatcc ccggcacaca tctgctggaa aacatccaca acatctgggt   60
gaacggggta ggcacgaata gcgcgccgtt ctggcggatg ttgcttaaca gctttgtgat   120
ggcgttcagc attacgctcg gcaaaattac cgtctcgatg ctctcggcat ttgccattgt   180
ctggtttcgt tttccgctac gtaacctctt cttctggatg attttttatca ccctgatgct   240
gccggttgaa gtacgtatct tcccgacggt ggaagtcatc gccaacctgc agatgctcga   300
cagctacgcc ggtttaacgc tgccgctgat ggcctcggcg accgctactt tcctgttccg   360
caagttaaat atgtcggggc cggacaaggt ggtgccagcc gcgcggatct ccgggtacgg   420
acctagagtt cgtaagcaag a   441

<210> 2730
<211> 654
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(656)
<223> similar to gi1788900 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2730
ggactactgg gctggagtgg acatttctcg ctataaaaat gtgcctgttc caacctcata   60
tatggccgaa aaatcgcagt acgattttgt cggcgcgtgg tgtcacgatg aagatggcgg   120
tttgctgcac gttgccaacc accatattgc gccaggtaaa aaacagtgga gttggggaca   180
cagtgaattt ggccaggcgt gggataagag tctgaccgac aataacggcc cgtatatcga   240
actgatgacc ggtatttttg ccgataacca gcccgatttt acctggcttg atgcttacga   300
agagaagcgt tttgagcagt atttcctgcc ttatcattct ttgggcatgg tgcaaaatgc   360
ctcccgcgat gcggtgataa aactccagcg tagtaagcgg gggattgagt gggggctgta   420
tgccatctct ccgttgaacg gataccgcct ggcgatccgc gaaatcggta aatgcaacgc   480
gttacttgat gatgccgtgg cactgatgcc tgcgaccgcc atccagggcg tgttgcacgg   540
tatcaattct gaaaggctga ccattgagct ctccgatgcc gacggcaata ttgtactgag   600
ttatcaggaa catcagccgc aagcgttgcc gttaccggac gtcgccaaag cgcg   654

<210> 2731
<211> 242
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(245)
<223> similar to gi1778474 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2731
atcggggtaa aacggtttat gacgtagcgt caggggacgc gttatttatt tctgaactcg   60
gtccgttacc ggaaaatgtt acctggttat cgccggaagg ggagtttcag aagtggaacg   120
gtacagcctg ggtgaaagat gcagaagcag aaaaactgtt ccggattcgg gaggcggaag   180
aaacaaaaaa cagcctgatg caggtatcca gtgagcatct tgcgcctctt cagaatcctg   240
ta   242

<210> 2732
<211> 533
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)...(534)
<223> similar to gi1742617 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2732
ttggtagacc atgacacgga ttctatgtcg cgacccggac atcgtattga ttgccatatc   60
gatgaggttt ttatccgtca ccagattgaa cttgagcgtc taacttcgat tgccataacc   120
ttgccgggaa ttattgatac ggaaaatggt attgtacatc gcatgccgtt ctacgaggat   180
gtaaaagaga tgccgctcgg cgaggcgctg gagcagcata ccggcgttcc ggtttatatt   240
cagcatgata tcagcgcatg gacgatggca gaggccttgt ttggtgcctc acgcggggcg   300
cgcgatgtga ttcaggtggt tatcgatcac aacgtggggg cgggcgtcat taccgatggt   360
catctgctac acgcaggcag cagtagtctc gtggaaatag gccacacaca ggtcgacccg   420
tatgggaaac gctgttattg cgggaatcac ggctgcctcg aaaccatcgc cagcgtggac   480
agtattcttg agctggcaca gctgcgtctt aatcaatcca tgagctcgat gtt   533

<210> 2733
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(443)
<223> similar to gi146119 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2733
ctattccgct tctgctgatt ccattcctat tctgtgcatt accggccagg caccgcgcgc   60
ccgtctgcat aaagaagatt ttcaggccgt agatattgaa gcaattgcta aaccggtcag   120
caaaatggcg gttacagttc gtgaagcggc gctggtgcct cgcgtgctgc aacaggcatt   180
tcacctgatg cgttctggtc gtccgggtcc ggtactggtg gatttaccgt tcgacgttca   240
ggttgcggaa atcgagtttg atcctgacat gtacgaaccg ctgccggtct acaaacctgc   300
tgccagccgt atgcagatcg aaaaagctgt agaaatgtta atccaggccg aacgtccggt   360
gattgttgcc ggggcggggg taattaatgt tggcgcaaag gcgctgaaac agcagtttgc   420
                                                                   441
tagggtgtcc accgtcccgg c

<210> 2734
<211> 394
<212> DNA
<213> Homo sapiens

1598

<220>
<221> misc_feature
<222> (1)...(395)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (394)...(5)
<223> similar to gi147423 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2734
taggctgttg actttttctt cataagtacg gaagtagccg ttcagtgccg gacgaccaaa   60
ttcgttgtta aacgccgcgc cgcccagcgg gccttcggtc atgatgtcca gcgcggtgac   120
aatgcgctca ggcttaccga aatcttcttc ccacggctgt tcgaagccag gaattcgcag   180
gttggaaacg gagaaaccaa ccagacccgc tttcggcttt gcgccgcgcc cggtggcacc   240
ttcatcgcgg atttcaccgc cggaaccggt cgccgcgccc ggccacggag aaatcgccgt   300
cgggtggttg tgagtttcga ctttcatcag aatatgcgcc ggttcctgat ggaaatcgta   360
gcggcccgtt tcgtggtcac caaagtancg gccc   394

<210> 2735
<211> 333
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (127)...(280)
<223> similar to gi1155360 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2735
cttccatttg ttctcattct ccttccccag ctggggctga tgaacctgtc gcacgcatag   60
cctcggctca gggctgatgt ttggtgctgt tcccacagtc acctctgtcc tgtgcacacc   120
tgtatggagg gtgcttggcc cttcactgtg caacagagcg cccagccaca gaacacccag   180
ccacagaaca catggccaca gaacacgcag ccacagaaca cccagccaca gaacacatgg   240
ccacagagca cgcagccaca gaacatccag ccacggggct atgcctcaaa ctgaggcagt   300
gtcttgacag acagctggaa gacacggccc tgg   333

<210> 2736
<211> 810
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (77)...(812)
<223> similar to gi1789150 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2736
attcagatgt ccgtcctgta catcggctgg actgggatga gcctggcgtg gcgcaactta   60
attttgcttg actgtgcaac aacgtatcga agtcgaaatg ctcggttatc tgttcttcgt   120
cggtaatcgc aaagccacgc cgctgccgta tcaaagccag ccggatgact catgcgactg   180
gtatcgcctg cgtcatgaag aagcgatgac gccggatgcg gtggtgcgcc tggcggaagc   240
ggcatatgaa aaatatggct tcaacgattt caaactgaag ggcggtgtac tggccgggga   300
agaagaggcc gagtctattg tggcactggc gcaacgcttc ccgcaggcgc gtattacgct   360
cgatcctacc ggtgcatggt cgctgatcga agcgattaaa atcggtaaat acctgaaagg   420
ttcgctggct tatgcagaag atccgtgtgg tgcgcagcaa ggtttctccg ggcgtgaagt   480
aatggcagag ttccgtcgcg cgacaggttt accgactgca accaatatga tcgccaccga   540
ctggcggcaa atgggccata cgctctccct gcaatccgtt gatatcccgc tggcggatcc   600
gcatttctgg acaatgcaag gttcggtacg tgtggcgcaa atgtgccatg aatttggcct   660
gacctggggt tcacactcta acaaccactt cgatatttcc ctggcgatgt ttacccatgt   720
tgccgccgct gcaccgggta aaattactgc tattgatacg cactggattt ggcaggaagg   780
caatcagcgc ctgaccaaag aaccgtttga   810

<210> 2737
<211> 621
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(624)
<223> similar to gi1651245 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2737
tggagatgtt tgtttctacg cgccgtgacg gtcgctcgct gggtgagctg gtcaaagaag   60
agatgggggcc aaccgccggg gtgattgcgc tggtggcctg ctttatgatc atggtcatta   120
tccttgcagt gctggcgatg atcgtggtga aagccctgac tcatagcccg tggggaacat   180
ataccgttgc gttcaccatt ccgctggcgc tgtttatggg gatctacctg cgctatctgc   240
gtccggggcg tattggcgaa gtgtcggtca tcggtctggt attcctgatt ttcgccatta   300
tctctggcgg ctgggtggca gaaagtccga cctgggcacc gtactttgac tttaccggcg   360
tgcagttgac ctggatgctg gtgggttacg gtttttgtggc ggcggtgctg ccggtgtggt   420
tactgctggc cccgcgtgac tacctctcta ccttcctgaa aatcgggact atcgtcggtc   480
tggcggtagg cattttgatt atgcgcccga cgctgaccat gcctgcgctg accaaatttg   540
tcgatggcac tggcccggta tggaccggga acctgtttcc gttcctgttt atcaccatcg   600
cctgtggcgc ggcgtctggt a   621

<210> 2738
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (32)...(496)
<223> similar to gi1736453 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2738
catgctacga attctagcgt ccgacccgga gatcgtgacg cctggcggtg aaataagctg   60
ggttgacgct aatctcgggg tcgatgaaat ccgcgagcaa ctgctctctt caccgcacag   120
tctgttcccg gtatgtcgcg gtgaactgga tgaaatcatc ggtattgtac gtgctaaaga   180
actgctggtg gcgctggaag agggcgttga tgtggcggcg attgcttcgg cgtctccggc   240
gattatcgtc ccggaaaccc tcgatccgat caacctgttg ggcgtgctgc gtcgtgctcg   300
cgggagcttt gttatcgtga ccaacgagtt tggtgtggta caaggtctgg tcacgccgct   360
ggatgtgctg gaagccattg cgggtgaatt tccggacgct gacgaaacgc cggaaatcat   420
tactgatggt gacggctggc tggtaaaagg cggtgcagat gtgcgtgcct ttcagcaggc   480
gcttgaggct gacccccccc ttgagctggg atgatgacct gacgtttgcg gtcatcggtg   540
atgtacgggt acgcgagctt gaattcgtaa tc   572

<210> 2739
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (36)...(440)
<223> similar to gi216512 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2739
cactctgatt acgaattctt gctctcgacc ctgagatccg ccaggatgaa gaagacttcg   60
aaaccttcca gggcgaaggc ctcttctcga tggacgaaaa atctcgccag gtgaacctga   120
ccgaacgtgg tctggtgctg attgaagaac tgctggtgaa agagggcatc atggatgaag   180
gggagtctct gtactctccg gccaacatca tgctgatgca ccacgtaacg gcggcgctgc   240
gcgctcatgc gctgtttacc cgtgacgtcg actacatcgt taaagatggt gaagttatca   300
tcgttgacga acacaccggt cgtaccatgc agggccgtcg ctggtccgat ggtctgcacc   360
aggctgtgga agcgaaagaa ggtgtgcaga tccagaacga aaaccaaacg ctggcttcga   420
tcaccttcca gaactac   437

1601

<210> 2740.
<211> 389
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(390)
<223> similar to gi1800007 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2740
ctcgcctgga aagggttaat taccgatccc catatggatg gttcttttga tgtagaagcc   60
gggctgcaga tcgcgcgtaa attgctgctt gagctggtga atatgggact gccactggcg   120
acggaagcgt tagatccgaa tagcccgcaa tacctgggcg atctgtttag ctggtcagca   180
attggtgctc gtacaacgga atcgcaaact caccgtgaaa tggcctccgg gctttccatg   240
ccggttggtt ttaaaaacgg caccgacggc agtctggcaa cagcaattaa cgctatgcgc   300
gccgccgccc agccgcaccg ttttgttggc attaaccagg cagggcaggt tgcgttgcta   360
caaactcagg ggaatccgga cggccatgt   389

<210> 2741
<211> 337
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(340)
<223> similar to gi1736423 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2741
aggctgccgc tgagcgctgg ggcttcgcct tgagttttga gcaaatggag tgggcgagct   60
gcgagtatta cagccatcac ggtaaaatga tgccggacga ctggcatgag caacttagcc   120
gtttcgacgc catctatttt ggtgccgtcg gctggccgga taccgttccg gaccatattt   180
cgttgtgggg ttcgctgctg aaatttcgtc gtgaattcga ccagtacgtc aacctgcgcc   240
cggttcgtct ctttcctggc gttccctgcc cgctggcggg aaaacagcct ggcgacatcg   300
attttttacgt ggtcagggaa aacaccgaag gcgaatt   337

1602

```
<210> 2742
<211> 455
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(457)
<223> similar to gi216440 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


      <400> 2742
gtccgtatct gatatcgacg acgttatcct cgttggtggt cagactcgta tgccaatggt        60
tcaaaagaaa gttgctgagt tctttggtaa agagccgcgt aaagacgtta acccggacga       120
agctgtagca atcggtgctg ctgttcaggg tggtgttctg actggtgacg taaaagacgt       180
actgctgctg gacgttaccc cgctgtctct gggtatcgaa accatgggcg tgtgtgatgac      240
gacgctgatc gcgaaaaaca ccactatccc gaccaagcac agccaggtgt tctctaccgc       300
tgaagacaac cagtctgcgg taaccatcca tgtgctgcag ggtgaacgta aacgtgcggc       360
tgataacaaa tctctgggtc agttcaacct agatggtatc aacccggcac cgcgcggcat       420
gccgcagatc gaagttacct tcgatatcga tgctg                                  455
```

```
<210> 2743
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(397)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (16)...(396)
<223> similar to gi536970 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


      <400> 2743
gtccgacccg gacatctgct ggatattgac gataccgaca tgcccagtct tcgttactcg        60
gatcctgaag cccagcgtat tggtcagcca tttaaaggtg atgacatcct taaagcgctg       120
aatggcgaag aaaatgtcgc tatcaatcgc ggttttctgg cgcaggcttt acgcgtattt       180
accccatct acgatgaaaa tcataaacaa attggcgtgg tggcgatcgg ccttgagtta        240
agccgtgtga cccaacagat caatgacagt cgctggagca ttatctggtc ggtattattt       300
ggcatgctgg tcggactgat tggcacctgc attctggtta aggtactgaa aaaaatcctt       360
ttcggcctgg aaccctacga aatctccncg ctgttt                                 396
```

<210> 2744
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(404)
<223> similar to gi396299 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2744
ctgtgcgaaa tgtttgcgtg atgcggatga atgcccctcc ggggcgtttg aacggattgg   60
tcgcgatatc agccttgacg ctctggaacg ggaagtgatg aaagatgaca ttttctttcg   120
cacgtccggc ggcggcgtca cgctttctgg cggcgaagtg ttaatgcagg cggagtttgc   180
tacccgtttt ttacagcgac tgcggctgtg gggtgtgtca tgcgccattg aaactgccgg   240
agacgcacca gccagcaagc tattaccgct ggcgaaattg tgcgatgaag tgttgttcga   300
tttaaaaatt atggacgcga ctcaggcgcg ggatgtggtg aagatgaacc tgccacgcgt   360
gctggagaat ctgcgtttgc tggtgagtga gggcgtcaac gt   402

<210> 2745
<211> 625
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (22)...(605)
<223> similar to gi4062504 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2745
ttcccgggtc gacgatttcg tccggaatca aaaatctcct gggtggagtt ccccgcgggt   60
ccgcaaatgt tggaagcgtt aaacgttggc agtattgatc tcggcagtac cggggatatt   120
ccgccaatct ttgcccaggc tgccgggggct gatttggtgt acgtgggcgt cgagccaccg   180
aagcccaaag ccgaagtgat tctggtggca gaaaacagcc cgatcaaaac cgtagccgat   240
cttaaaggtc acaaagttgc ctttcagaaa ggttccagtt cacacaacct tttactgcgt   300
gcactgcgtc aggccggact taagtttacc gatatccaac ccacttacct gacgcccgct   360
gatgcccgcg ccgcgttcca gcaaggtaac gttgacgcct gggctatctg ggatccctac   420
tactctgctg cattattaca gggcggcgtg cgggtgctga aagacggcac cgatctcaat   480
caaactggat cgttttatct ggcagctcgt ccctatgcag aaaaaaacgg cgcttttatt   540
cagggcgtac tggcaacctt tagtgaggcc gatgcgttaa cccgcagcca gcgcgagcaa   600
agcaacgaaa tcgtcgaccc gggaa   625

1604

```
<210> 2746
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(454)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (264)...(456)
<223> similar to gi581146 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



     <400> 2746
ccaccagaga gcagtgaact gagtatccag ccagctgcac gaaagagcag cagagtcaaa        60
ggaagtggca ggaaaaaaat aatgggcaag gcaaaaatga tgaaataaaa atccaggaag       120
caacataaag tattaacaaa accaaaggtt ggttctttaa aaatagtaca aaaatagaca       180
agcctctggt tatattaaga tgccacagag aaatagggga nnnnnnnnnn nnnnnnnnnn       240
nnnnnnnnnn nnnnnnnnna aagttgttcg tgctggtggg aacgctttat ccgatgattt       300
acggcctgct gggctgggga cgcctctccg ttggcgcgcc gtattttaac cgcgcgacgt       360
taccgtttgg tctgttgatg ctggtggtga ttgtgctggc gacgtttgtc tctggcaaac       420
gcgtgcagct tccggcgctg gtagctcatg cgg                                    453
```


```
<210> 2747
<211> 127
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(128)
<223> similar to gi2454510 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



     <400> 2747
aaccgcatcc cggccaacct ggtggaccag ttcgagaagc agctgccgct gcaccgggac        60
ggcttccaca cgctgcagta ccagaggacg tccgcggccg ccgagcagcg cagcgagagc       120
cccgggc                                                                 127
```

```
<210> 2748
<211> 335
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)...(336)
<223> similar to gi40908 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 2748
gggtggcgcc cggatgacga aacacccacc ctgctggtgg tgcacaatat taacctgccg      60
ccaggcgagt ttggcggtcc gtggatcgac gcattattca ctggaactat tgatccgcag     120
gcacatcctt tctttgctga gatcgcccat ttgcgcgtct ccgctcactg tttgattcgc     180
cgtgatggtg aaatagtcca gtatgttcct ttcgataaac gtgcatggca tgcgggagtc     240
tctcagtatc aggggcgcga acgctgcaat gatttttcta ttgggattga gcttgaaggc     300
accgatccgc tggcgtatac cgatgcgcag tattg                               335




<210> 2749
<211> 346
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(347)
<223> similar to gi1742648 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 2749
tacctgttat tgtttgtctg cttccttgtg atgtctctgc tggttgggct ggtgtacaaa      60
tttaccgccg aacgcgcggg caaacagtcg ctggatgatt tgatgaacag ttcgctgtat     120
ctgatgcgca gcgaattgcg tgagatcccc ccacacgact ggggtaaaac tctgaaagag     180
atggatttaa atctctcttt cgatctgcgt gtcgagccac tgagtaaata ccatcttgat     240
gatatttcca tgcaccgact gcgtggcggc gaaattgtcg ccctggacga tcagtacacg     300
tttttgcagc gtatcccgcg cagccactac gtgctggcag ttggtc                   346




<210> 2750
```

1606

```
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(374)
<223> similar to gi1778530 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



    <400> 2750
agcgctggcg attcagggct ggctaccccg tttcattgaa tttggtgcct gtagtgcgga    60
aatggcacca gaagcggtac tccacggatt acgcccaatt ggtatggctt gcgaaggtga   120
tatgttccgc gccactgcgg gcgtaaacac gcataaaggc agcatttttt ctttagggct   180
gctatgtgcg gcaattggcc gtttgcttca actcaaccaa ccggtaacgc caacaaccgt   240
ttgttctacg gcggcaagtt tctgccgtgg cctgaccgat cgcgaactgc gtaccaataa   300
ttcacaactg acggcaggtc aacggttgta ccaacagctt ggccttaccg gcgcacgcgg   360
tgaagccgaa gc                                                        372




    <210> 2751
<211> 596
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(598)
<223> similar to gi1736838 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



    <400> 2751
cgcaattgtt tccctgccga ttaccgaaaa aggctattgt attgacccgg ccaccggtgc    60
actcgacacc agtaatccgc ggattattca cgatctacaa acccctgaag aacctcactc   120
cgcaccgggt attctcgtcg aagcactgaa acgccgccgt gagcgcggcc ttacaccgtt   180
taccgtgctc tcctgcgaca atattcccga caatggtcat gtggtgaaaa acgcggtgct   240
gggaatggca gaaaaacgtt cgccagaact cgccgggtgg ataaaagagc acgtcagttt   300
tccgggaacc atggtcgacc gcattgttcc ggctgcaacc gacgaatcac tggtggaaat   360
cagccagcat ctggggggtga atgatccctg cgcgattagc tgcgaaccgt ttatccagtg   420
ggtggtggaa gataacttcg tcgctgggcg tcctgcctgg gaagtcgcag gtgtacaaat   480
ggtgaatgat gtcctgccat gggaagagat gaaactgcgg atgcttaatg gcagccactc   540
ttttctcgct tatctgggtt acctctcagg attcgcccat atcagtgatt gcatgc       596




    <210> 2752



                              1607
```

<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(208)
<223> similar to gi4062236 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2752
```
gttgaattat tcctcagcga tgaaggcgat gatgtggtga ttgaagtcgc cgatcagggc      60
tgcggcgttc cagagtctct acgagacaaa atatttgagc aggggggtcag tacgcgtgct     120
gacgagcccg gtgaacatgg cattgggttg tacttgattg ccagctacgt aacgcgctgc     180
ggtggtgtta tcactctcga agataat                                         207
```


<210> 2753
<211> 335
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(337)
<223> similar to gi537141 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2753
```
tcacggttgc ctggacttcg acgacagtac agacgacaaa gagtacgtct tcgacgtgaa      60
acgtacattg caatctgtgg cgaaaagaga aatagctgcc cttgcccgaa caatgatcaa     120
agatggcgac tgcttttttc tcgactccgg ctcaacctgc ctcgaactgg cgaaatgcct     180
ggccgatgcg cgggtaaagg tcatctgcaa cgacattaaa atcgccaatg aactgggctg     240
ttttccccat gtggaaagtt acattatcgg aggactgatt cgcccaggtt atttttcggt     300
aggagagagt ctggcgctgg agatgatcaa tgcct                                335
```


<210> 2754
<211> 518
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(518)

1608

<400> 2754
```
gcaaactaaa accgggagca gcaccagaca acgctcacta tcaaggcaat accaacgtca      60
acggcgaaga catgactgag attgaggaga atatgctact cccaatttct ggccaggaac     120
tgcccattcg ttggcttgct caacacggca gcgaaaaacc ggtaacgcac gtttcacgcg     180
acggactcca ggcattacac attgctcggg ctgaagaact accggctgtt actgccctgg     240
ctgtttccca caaaaccagc ctgctcgacc cgctggaaat tcgcgaactc cacaaactgg     300
ttcgtgacac tgacaaagtt ttccctaatc ctggtaattc aaacctggga ctgataactg     360
cttttttcga agcatacctg aacgctgact acaccgatcg aggactgctg acaaaagagt     420
ggatgaaggg taatcgtgtt tcacacatca ctcgcacggc ttccggtgct aatgctggcg     480
gcggaaacct caccgatcgc ggcgaaggtt tcgtaccc                            518
```


<210> 2755
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(408)

<400> 2755
```
tggatgattt cgccagtgtg cagaacatta ttaacaacag tgaagaattt gccgctgccg      60
tgaagaaacg cggtattact gatgcgaaaa aagtgattac cacgccgctg accgtaggtt     120
atttcgatgg taaagatggc ctgaaacaag atgcccggtt gctcaaagtc atcagctatc     180
ttgatgtcgg tgatggcaac tactgggcac atcccatcga aaacctggtg gcggtcgttg     240
atttagaaca gaaaaaaatc gttaagattg aagaaggtcc ggtagttccg gtgccaatga     300
ccgcacgccc atttgatggc cgtgaccgcg ttgctccggc agttaagcct atgcaaatca     360
ttgagcctga aggtaaaaat tacaccatta ctggcgatat gattc                    405
```


<210> 2756
<211> 522
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)...(461)

```
      <400> 2756
taacacccgc gacaagctca ttgtcgtgac cgggctttcg ggttctggca aatcctcgct      60
cgctttcgac accttatatg ccgaagggca gcgccggtac gttgaatccc tttccgccta     120
cgcgcggcag tttctgtcac tgatggaaaa gccggacgtc gatcatattg aggggctttc     180
tcctgccatc tcaattgagc agaaatcgac gtctcataac ccgcgttcta cggtggggac     240
aatcaccgaa atccacgact atttgcgttt gttattcgcc cgcgttggcg agccgcgctg     300
tccggaccac gacgtcccgc tggcggcgca aaccgtcagc cagatggtgg ataacgtgct     360
gtcgcagccg gaaggcaagc gtctgatgct actcgcgcca atcattaaag agcgcaaagg     420
cgaacacacc aaaacgctgg atatcctgcc aagccattaa gacgggtgtc gtcagtggtt     480
ttgccagtct ctgcgttgtc agcgtccgga cattgaatcc gt                       522
```

```
      <210> 2757
      <211> 493
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1)...(494)
      <223> similar to gi1742410 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters
```

```
      <400> 2757
aaggatcatc atgttgacgt tacgtataaa acactgcgct cactgaaaca tggcgaagcc      60
ctgctgaaaa tggagtgttg tggtgtatgt cataccgatc ttcatgttaa gaatggcgat     120
tttggtgaca aaaccggcgt aattctgggc catgaaggca tcggtgtggt ggcagaagtg     180
ggtccaggtg tcacctcatt aaaaccaggc gatcgtccha gcgtggcgtg gttctacgaa     240
ggatgcggtc attgcgaata ctgtaacagt ggtaacgaaa cgctctgccg ttcagttaaa     300
aatgccggat acagcgttga tggcgggatg gcggaagagt gcatcgtggt cgccgattac     360
gcggtaaaag tgccagatgg tctggactcg cgggcggcca gcagcattac ctgtgcggga     420
gtcaccacct acaaagccgt taagctgtca aaaattcgtc cagggcagtg gattgctatc     480
tacggtcttg gcg                                                       493
```

```
      <210> 2758
      <211> 210
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (3)...(213)
```

<400> 2758
```
ttcaggcgct ggaactggcg gtgcaggagt atccggtgaa agcgtgctgg ctgatgacta    60
atagccagaa tccactcgga tttaccttaa cgccgcaaaa aaaagcacaa ctggtggcgt   120
tgctcaatca gtacaacgta acgctgattg aagatgacgt ttacagcgaa ctttattttg   180
gacgggaaaa accgctgcct gcgaaagcgt                                    210
```

<210> 2759
<211> 108
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(109)

<400> 2759
```
tggcgtccgt tgaataaccc gaaacattta gcggtcagca gcttctccat ggaaaacccg    60
caaggctttg gtctgttgca gcgcggtcgt gatttctccc gctttgaa              108
```

<210> 2760
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(320)

<400> 2760
```
cgcgtggact gtgcgcaggc gtgctggaag agacggtttc ctgttttgct gataatccgg    60
aaaatattct cgcctggtta gggccggcaa ttggtccacg cgcgttcgaa gtggggggggg   120
aggttcgcga ggcgtttatg gcagtagacg ctaaagcaag tgcagctttc attcagcatg   180
gtgataagta tctggcggat atttatcagc ttgcccggca gcgtctggcg aacgtgggtg   240
```

```
ttgagcaaat tttcggcggc gaccgttgta catatacgga aaatgagact ttcttctctt    300
atcgtcgcga caagacc                                                  317




      <210> 2761
      <211> 537
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (3)...(540)
      <223> similar to gi1160318 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




      <400> 2761
aagccttcaa catcgaacag gcgaccttta acgactacat ggcgaagctg ggcgaagttt    60
ccgataccga cattcgccgc tttgctgacc tgcaaactgc cctgaccaaa cgtgtggatc    120
acttcgccgc tcacggctgt aaagtgtctg accacgcgct ggatgtggtg atgtttgctg    180
aagcgaacga agcggaactg gacagcattc tggcgcgccg tctggctggc gaaaccctga    240
gcgagcacga agtggcgcag ttcaaaactg cggtactggt gttccttggt gccgaatatg    300
cacgtcgcgg ctgggtacag cagtaccaca ttggcgcgct gcgtaataac aacctgcgtc    360
agttcaaact gctggggccg gatgtaggct ttgactccat caacgaccgt ccgatggcgg    420
aagagctgtc taagttgctg agcaagcaga atgaagaaaa cctgctgccg aaaaccattc    480
tgtactgcct gaacccgcgc gataacgaag tgctgggcac catgatcggt aacttcc      537




      <210> 2762
      <211> 214
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (3)...(211)
      <223> similar to gi1787795 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




      <400> 2762
tcgacgccat tatcgccccc gatgccaacg ccctgcccgc tgccgcacaa gccgcagaaa    60
acttgaaaaa tgacaaagta gcgattgtcg gattcagtac gccaaatgtg atgcgcccgt    120
atgtagagcg cggcacggtg aaagaatttg gcctgtggga tgtggttcag caaggcaaaa    180
tatcagtgta tgtggcggat gcattacagt aaaa                               214




                          1612
```

```
<210> 2763
<211> 485
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (398)...(487)
<223> similar to gi1384056 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



      <400> 2763
gggatgcatg actgagatgg agtttggggg aaactgttac tacgtaagag ctcctaccta      60
ccgaccatgg gtgacacgca gacaccttcc catgcctgat tcattcacat ctcctactag     120
ctgtgtgagg cagctcctac tggctccgtt gaaacagatg tgaagtaact agctcaagca     180
gctctaagtc caagttaacg tttgggtttc agggcctgtg tgcttcatcc gtcatttgtg     240
tttctgaaaa gcgagatgaa taaaagttcc agaatggcaa acacgatctt cgggccccag     300
gacagcagca ttgagtgatt ctggtcacac ggggaggcag ccgtgggcac gcctgtccct     360
ggagctcaca acccggtggg caaccgtgga cccacagatc atcggggtcg cggttgccgg     420
tcaggaaatc tccacccgtc cattccagtt ggtcactggt cgcgtatgga aaggttccgc     480
gtttg                                                                485




      <210> 2764
      <211> 129
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (31)...(130)
      <223> similar to gi1799743 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



      <400> 2764
tacatcgtag tgacggggaa aacacattgc ggtacgccac ttactaccgt tacaggagac      60
gcaacgcaat cgggttatct gacgctgaac ctgcctgaaa tgtgggaagt gtcaggttat     120
aaccgtgtt                                                            129




      <210> 2765
      <211> 334
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (56)...(336)
<223> similar to gi1651354 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2765
```
acttcatgtc cgtacgctgt acaaccacca gactgctaaa accctggggt tacccaaatt      60
gatggacttg ggcgacagca gcgagctctt ccgtaagcat cacatctctg gtcaggttct     120
gcgtgacgag ctactgcgtc gcggctggat ccaccaatta cgtcaacgca gcgacggtcc     180
cgcgcaagtc ttttgccatc cagattacgc cggagagatt ggccttatca tgccgtatga     240
aaaagacttc tgcgccactt gcaaccgcct gcgcgtttcc tccattggta aactccatct     300
ctgcctgttt ggtgaaggcg gcgttaacct gcgc                                 334
```

<210> 2766
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(341)
<223> similar to gi882538 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2766
```
actggcaggc gcattgattg cccagggggt tatggatttt ctgcctacga ttgcgattct      60
gaccgccgca gcaagtctgg gctgctggct aagttatatt caggggcgct ggttagggaa     120
taccaaaacg gtgaaaggct ggctggcaca gcttcctgct aaatatcacc agcgcgccac     180
ctgcatgttt gaccgccacg gtctgctggc gctgctggct ggacgttttc ttgcatttgt     240
ccgtacgctg ctgccaacca tggcgggaat ttccggtttg ccaaaccgcc gcttccagtt     300
tttcaactgg ttaagtggat tgctgtgggt cagcgtggt                            339
```

<210> 2767
<211> 423
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

1614

<222> (3)...(369)
<223> similar to gi2584857 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2767
```
cgaaggtatt gagttatctc gatgtactgc gcgacaaagc gccggttggc aacaaagttg     60
ccatcatcgg ttgtggcggg attggttttg atacggcgat gtatttaagt cagccgggcg    120
aatccaccag ccagaatatc gccgggttct gtaatgaatg ggggatcgac agtagcctac    180
aacaggctgg tggcttaagc ccgcagggaa tgcagatccc ccgtagccca cggcagattg    240
tgatgctcca gcgcaaagcc agcaaaccag gacaggggtt aggcaaaacc accggctgga    300
tccatcgcac caccctgctc tcgcggggtg tgaaaatgtt ccccaaagtg agtaatctga    360
gtatcgccag ggtcgtcccg ctcgtggtgt tctccggctc aaatcctcga agccgtttcg    420
ctc                                                                  423
```

<210> 2768
<211> 358
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(359)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (358)...(6)
<223> similar to gi405964 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2768
```
gccggtttttg ccgcatcaat ggtgcttagc gatgactcaa cgtaccagtg cgccgactgc     60
aaatctgccc gccgggccag taaggagtac cccagttcat caagaagctg gcttgccact    120
ttcggcaacg cgaccggatt aagcttcaat gactttgtct ggttatttgt aagtgcgctt    180
aaccgtgcct caataatttt cattttcccc gcgacatcgt tgagctgctg ccgggttttg    240
ctggcattaa tatcgggttc cacaccttca actgaagaag taatcccgtt ctgatatagc    300
tggcgatcgg tcgcgataat ggcgntctgc tctttttcta tttgctgcaa gaccgtgg     358
```

<210> 2769
<211> 226
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(212)
<223> similar to gi147324 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2769
agctctggtg acaccctggc gcgtattccg caggaatccg gcggtaccaa ggacatcacc   60
ggtggtctgc cgcgcgttgc ggacctgttc gaagcacgtc gtccgaaaga gccggcaatc   120
ctggctgaaa tcagcggtat cgtttccttc ggtaaagaac ccaaaggtaa acgtggtttg   180
gttatcaccc cggtagacgg tagcgatccc cgggtaccga catcaa   226

<210> 2770
<211> 349
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(350)
<223> similar to gi41216 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2770
ggcggcaacc aaatcgatgg caatgtgttg atagatacct ccattttcgc cagccacgat   60
aaagcccccg gctggccatg gaatgacatg acacaatgct ttagcgctcc gcctgccgcc   120
gccatagatg accgcaactg tttctccgtc tcgctctaca gagccccaaa gcctggtgat   180
atggctttta tacgcgtggc atcttattac cccgttacga tgttcagcca ggtacgcacc   240
ctcccccgtg gttctgccga agcgcaatac tgcgaactgg atgtggtgcc aggcgacctg   300
aaccgcttta cgctgacggg atgcctgcca caacgttctg agccgctcg   349

<210> 2771
<211> 468
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(437)
<223> similar to gi304912 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

1616

<400> 2771

```
cctgctggca atcaatcccg ataagcgtca caatcgcgtg atcacgccgc atcctggcga      60
ggccgcacgg ttgttaggct gttccgtcgc tgaaattgaa agtgaccgct tacattgcgc     120
caaacgtctg gtacaacgtt atggcggcgt agcggtgctg aaaggtgccg gaaccgtggt     180
cgccgcccat cctgacgctt taggcattat tgatgccgga aatgcaggca tggcgagcgg     240
cggcatgggc gatgtgctct ctggtattat tggcgcattg cttgggcaaa aactgtcgcc     300
gtatgatgca gcctgtgcag gctgtgtcgc gcacggtgcg gtagctgacg tactggcggc     360
gcgttttgga acgctcggga tgctggcaac cgaactcttt tctacgctac agcgtatttg     420
taacccggaa gtgcctgttg atcctcttgc gtatacagtc attccccg                  468
```

<210> 2772
<211> 236
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(239)
<223> similar to gi43312 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2772

```
tggatatcgg cattggcgaa gaaaaccgta agcgctggct gcgtaccggt aaatgctctt      60
tcctgccgga agagcgcgaa tggatggaca ggctgatgag ctgggggttg gtcgatacct     120
tccgccatgc gaatccgcaa acagcagatc gtttctcatg gtttgattac cgctcaaaag     180
gttttgacga taaccgtggt ttgcgcatcg acctgctgct cgccagccac cccctg         236
```

<210> 2773
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(425)
<223> similar to gi1789585 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2773

```
tcagacataa agggattaaa accctgagaa cgttcgggcg ggccgggtta atgttattca      60
atgcgctggt cggcaaaccg gaatttcgca acatgcgcc gctgctggtg cgccagctct     120
```

```
ataatgtcgg cgtcctgtcg atgctgatta ttgtggtttc tggcgtgttc atcggaatgg    180
tgttggggct gcaaggttat ctggttctga ccacttatag tgcggaaacc agtctgggta    240
tgctggtggc gttatcgcta ctgcgtgaac tggggccggt ggttgccgcg ttgttgtttg    300
ccgggcgtgc tggttcggcg ctaaccgcag aaatcggctt gatgcgcgct acagagcatc    360
tctccagtat ggagatgatg gcggtggatc cgctgcgtcg ggttttttct ccccgcttct    420
gg                                                                   422
```

```
        <210> 2774
        <211> 253
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (19)...(248)
        <223> similar to gi4062338 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2774
tggcggcctt cctgagagaa tattgccgag gagtacgcga ctaaacgcta tcgttctaac     60
gtcatcaact gggggatgtt accgctgcaa atggcggaag taccaacctt tgaagtgggg    120
gattacattt acatccctgg cattaaagcg gcgctggata atccgggtac gacgtttaaa    180
ggttatgtga tccatgaaga tgcgccggta acggaaatta cgctctatat ggaaagtcag    240
gaagccagaa cag                                                       253
```

```
        <210> 2775
        <211> 439
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (4)...(440)
        <223> similar to gi450382 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2775
gacgacgctg cgcaggtcgc gcaagtgtgt cagcgactgt tagctgaaac ggagcgactg     60
gacgcgctgg tcaatgcggc gggaatttta cgcatgggcg cgaccgatca gctcagtaaa    120
gaggactggc agcagacttt tgcggttaac gtcggcggtg cgtttaacct gttccagcaa    180
accatgaacc agtttcgccg tcagcggggc ggggcgattg tcactgtggc gtccgacgcc    240
gcgcacacgc cgcgtattgg catgagtgct tatggcgcat cgaaagcggc gctgaaaagc    300
ctggcgttga gcgtcgggct ggaactggcg ggtagcggcg tgcgctgtaa tgtggtttcg    360
```

```
cctggctcca ccgacaccga tatgcaacgc acgctgtggg tgagcgatga cgccgaagaa    420
cagcgtattc gcggctttg                                                  439
```

```
        <210> 2776
        <211> 174
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2)...(176)
        <223> similar to gi882545 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2776
gcgctatatc aaagaactgg cgacccatca cgtcggcggt tatctgaaga ttgccccgga    60
acataccgaa gaagggccgt tatcgaagat gatgaagccg ggcatgggca gctatgaccg   120
ctttaaagac ctgttcgata cttgctcaaa ccaggcaggt aaagcgcagt atct         174
```

```
        <210> 2777
        <211> 331
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2)...(330)
        <223> similar to gi1203799 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2777
gacaaaaagt ggaagagtat tatgcgcagc acctgagtat ctgcaaaaat atccgcagcc    60
acaatcccta caggaattaa gtcgtcatga ctgtctggtg accaaagagc gcgatatgac   120
ccatggaata tgggagttgg ggaacggtca ggagaaaaaa tcggtgaagg taagcgggca   180
tctttcctcc aatagcggag agattgtgct gcaatgggcg ctggagggca aagggattat   240
gctgcgttcc gagtgggatg tgttgccgtt tctggagagt ggcaaactgg tgcaagtatt   300
gccagagtat gcacaaagcg ccaatatctg t                                  331
```

```
        <210> 2778
```

<211> 337
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)...(326)
<223> similar to gi146715 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2778
```
ccgcgcgatg ccgactgggt cgattactcc acggttaccg ccctaaaaat gacagcatta      60
cgaatggcgt ggaaaggttt cgcgcaacgt gatgatgagc agatggccgc gtttcgccag     120
tttgttgcag agcagggcga cagcctgttt tggcaggcag cctttgatgc gctacatgcc     180
cagcaagtga aagaggacga aatgcgctgg ggctggcctg catggccaga gatgtatcag     240
aacgtggatt caccagaagt gcgtcagttc tgcgaagaac atcgtgatga cgtcgatttt     300
tatctctggt tgcagtggct ggcttccacg ccagttt                             337
```


<210> 2779
<211> 245
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(224)
<223> similar to gi1651603 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2779
```
gcggtgctaa cttcggctat gacaacctgg ttgtcgatat gctgggcttc agcattatga      60
agaaagtgtc tggtaactcg ccggtgattt tcgacgtgac ccacgcactg caatgccgcg     120
atccgtttgg cgcagcttcc ggtggtcgtc gtgctcaggt ggctgagctg gctcgacccg     180
gtatggcgta taggtcggtc gcgccagttt attccgcgca tcggatgtcg ggtcggacga     240
tgaat                                                                 245
```


<210> 2780
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (3)...(365)
<223> similar to gi145474 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2780
aacgtgcgcg ttttaaactg ccagcgtggc cgaccaccac gattggttcc ttcccgcaaa   60
ccacggaaat tcgtaccctg cgtctggatt tcaaaaaggg caatctcgac gccaacaact   120
accgcacggg cattgcggaa catatcaagc aggccattgt tgagcaggaa cgtttgggac   180
tggatgtgct ggtacatggc gaggccgagc gtaatgacat ggtggaatac tttggcgagc   240
acctcgacgg atttgtcttt acgcaaaacg gttgggtaca gagctacggg ttccgctgcg   300
tgaagccacc gattgtcatt ggtgacatta accgcccggc accgattacc gtggagtggg   360
cg   362

<210> 2781
<211> 495
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(497)
<223> similar to gi1790450 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2781
ggaagatgtg attcttaatc gtcgcgacga tggcaccgag cgtttactgg agcttgccga   60
gaaatatcgc ggcagcaaaa ccgacgacac cgccaacgcc cagcaggcgg agtggcgctc   120
gtgggaagtg aataaacgtc tggaatactc gctggtcaaa ggcattaccg agtttatcga   180
gcaggatacc gaagaagccc gccagcaggc tacgcgcccg attgaagtga ttgaaggccc   240
gttgatggac ggcatgaatg tggtcggcga cctgtttggc gaagggaaaa tgttcctgcc   300
acaggtggtc aaatcggcgc gcgtcatgaa acaggcggtg gcctacctcg aaccgtttat   360
tgaagccagc aaagagcagg gcaaaaccaa cggcaagatg gtgatcgccc ccgtgaaggg   420
cgacgtccac gacatcggta aaaatatcgt tggtgtggtg ctgcaatgta caactccga   480
aattgtcgat atcgg   495

<210> 2782
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(301)

1621

<400> 2782
```
gaaagcccat tacgctggtc aatctggcaa cccataccag cgccctgccc cgtgaacagc    60
ccggtggcgc ggcacatcgt ccggtgtttg tctggccaac gcgcgagcaa cgctggaaat   120
acctttctac ggcgaagctg aaagccgcgc caggcagtca ggcggcgtac tctaaccttg   180
cgttcgacct gctggcagat gcactggcga atgcgtccgg caagccttat acccagttgt   240
ttgaagagca gattacccgt ccattgggga tgaaagacac cacctacacc ccctcacc    298
```


<210> 2783
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(468)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (35)...(469)

<400> 2783
```
tcacttcatt acgcattnnn nattgtaccc ggagatcact ctggcgaacg aattcctgcc    60
cggtgccggg ttggatatgt tgcagctggc gaccgtcgat atctcgaaat atcagagcac   120
tacggaagcg gtacaaagca gttcccacgg cattatgggc acgattttgt cgctggtgcc   180
gacgaacatt gtggcgtcga tggcgaaagg cgaaatgctg ccgatcatct ttttctcggt   240
gctgtttggt ctggggcttt cttccctgcc cgcgacgcat cgtgaaccgc tggtgaccgt   300
gttccgctcc atctctgaaa ccatgtttaa agtgactcac atggtgatgc gttatgcacc   360
ggtgggtgtg tttgcgctga ttgcggtgac ggtggctaac tttggtttct cgtctctgtg   420
gccactggcg aaactggtgc tgctggtgca tttcgccatt ctgttct              467
```


<210> 2784
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<400> 2784
acgagattca ctgtccgtac gccgtacatc ggccatactg ctaaaacccg ggtgctaccc   60
atcttaatca gtcttgccgc taagttccgc gctcaataac ttccttgaac cgttactgcg   120
caaagagaat ctgcggatca tcctgaccgg agccggaacg tcggcattta tcggtgacat   180
catcgcgccg tggctcgcca gccataccgg taaaaacttc agcgccgtac cgaccaccga   240
tctggtcacc aatccgatgg actacctgaa cccagctcat ccgctgctgt tgatctcctt   300
cggtcgatcc ggcaacagcc cggaaagcgt cgcagccgtg gaactggcaa atcaatttgt   360
accggaatgc tatcacctgc cgatcacctg caacgaagcg ggcgctcttt accaaaacgc   420
gatcaacagc gataacgcgt ttggccg   447

<400> 2785
ataaacacgg cctgaaactg tatgttcagc gtgtgttcat catggacgac gcagaacagt   60
tcatgccgaa ctatctgcgc ttcgtgcgtg gtctgattga ctccagcgat ctgccgctga   120
acgtttcccg tgaaatcctc caggacagca cggtaacgcg taacctgcgc aatgcgctga   180
ccaagcgtgt gctgcaaatg ctggaaaaac tggcgaaaga cgacgcggaa aaataccaga   240
ccttctggca acagtttggc ctggtactga aagaaggtcc ggcggaagat ttcgctaacc   300
aggaagc   307

<400> 2786
attgccgagc gtgctggcgg tttatttggc aaaaaggtgc tcgatgtcgg ttgtggcggc   60
ggcattctgg ccgagagtat ggcgcgcgaa ggcgcgacgg tgaccggtct ggatatgggc   120
tttgagccat tgcaggtggc aaaactgcac gcactggaaa gcggcattca ggtggattac   180
gtgcaggaaa ccgtggaaga gcacgcggca aaacatgccg ggcagtatga tgtggtgacc   240
tgcatggaga tgctggagca cgtccccgat ccgcagtcag tggtcagagc ctgtgcgcaa   300
ctggtgaaac caggcggcga tgtcttttc tcgacactta accgcaacgg caagtcatgg   360
ctgatggcgg tggttggtgc ggaatatatt ttgcgcatgg tgcccaaagg cacgcatgat   420
gtgaagaagt ttattaaacc ggcagaattg ctgg   454

<210> 2787
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(203)
<223> similar to gi41037 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2787
gaaggcgtgg ctggataccc tgctgcgccg atatgtccaa tttgaggttt atcagggcgt   60
ggttgaaaac ctggccagcg agcaggccgc ccgtatggtg gcgatgaaag ccgcgaccga   120
caatggcggc agcctgatta aagagctgca gttggtatac aacaaagctc gtcaggccag   180
cattactcag gaactcaccg a   201

<210> 2788
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)...(426)
<223> similar to gi1773185 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2788

1624

```
gaggatgggg accacgggga cgatcagtta tcgcattaaa cttctggaaa agaataccgg    60
agtagcgctg tttttccgta cgactcgcag cgtgacgttg acagcggctg gcgagcatct   120
actttcccag gccagagact ggctgagctg gctggaaagt atgccaagcg agctgcaaca   180
ggtgaatgat ggcgtggaac gccaggtgaa tattgtcatc aacaacctgc tctacaaccc   240
ccaggccgtc gcccagttgc tggcgtggct gaatgagcgt tacccctta cccagtttca    300
catctcccga caaatctata tgggcgtctg ggactcgcta ttgtacgaag gtttttcgct    360
ggctatcggc gtcacgggaa ctgaggcgct ggcaaatacc tttagtcttg atcctctaga   420
gtcg                                                                424
```

<210> 2789
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(717)
<223> similar to gi1736452 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

```
    <400> 2789
aaactatcag gtttcttcgc aacgctttcc ttttaccatt aacgttaatg gtccgggggc    60
tacggcgctg gcatggcact atcttccaac acaattaccg ctggcggtgc tgctaagttt   120
actggtgggc tacatcgcct ggctggcgac cgcttaccga atgagctttt cccgcgaaat   180
caatctgggc ctggcgcaac atgagttcga attgttctgt cagcctttgc ttaatgcgcg   240
cagccagcaa tgtattggtg tagagatttt gctgcgctgg aacaatccgc gtcagggctg   300
gatttcaccg gatgtgttta ttcctatcgc ggaagaacat catttaattg tgccactgac   360
ccgctatgtg atggcagaaa ccattcgtca gcgccatgtt ttcccgatga gtagtcagtt   420
tcatgttggc attaacgtcg cacccagcca ttttcgccgt ggtgtgctga taaaagatct   480
caatcagtac tggtttagcg ctcacccgat tcagcaactg atcctcgaaa tcaccgaacg   540
cgatgcctta ctggatgttg attatcggat tgcccgcgag ctgcatcgta aaaacgtcaa   600
actggcgatt gatgacttcg gcaccggcaa cagctcgttt tcctggcttg aaacattacg   660
tcctgacgtg ctgaaaattg ataagtcatt taccgcagct ataggttctg acgcg        715
```

<210> 2790
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(294)
<223> similar to gi4062338 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2790
```
gctgcaaact gaaattggca gcatggtcta tgcggtgaaa ccaggcgatg gttctgcgcg      60
tgaacaggcg gcgagctgcc agcgtgtgat tggcggtctg gcgaatattg ccgaggagta     120
cgcgactaaa cgctatcgtt ctaacgtcat caactggggg atgttaccgc tgcaaatggc     180
ggaagtacca acctttgaag tggggggatta catttacatc cttggcttta aagcggctaa     240
gtatagtccg ggcacggcgt ttacagtcta tgcgatctcc gggtacggac ctcgaatctg     300
ataa                                                                   304
```


<210> 2791
<211> 217
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (19)...(218)
<223> similar to gi216462 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2791
```
tcgagctctg gacccggaga tcagcaacac cgcctgcggg aagtgatgtt ttatctcaac      60
ttgtcggagc aggaaaaaga tgcgtttttgt gaacgcttcg gcgttcgctt gctgacgtct     120
tatgggatga cggaaaccat tgtgggcatt atcggcgatc gtcctggcga taaacgacgc     180
tggccgtcga ttggtcgggt ggggttttgc tacgaag                               217
```


<210> 2792
<211> 530
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(531)
<223> similar to gi4902925 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2792
```
caatatatgc gtagcgaaga ggagatgtgt gagctgtttg ccgacatccc cgaagccctt      60
gccaacaccg ttgagatcgc caaacgctgt aacgtaaccg tgcgtcttgg tgaatacttc     120
ctgccgcagt tcccgaccgg ggacatgagc accgaagatt atctggtcaa gcgtgcaaaa     180
gagggcctgg aagagcgtct ggccttttta ttccctgatg aggaagaacg tcttaagcgc     240
```

```
cgcccggaat atgacgaacg tctggagact gaacttcagg ttatcaacca gatgggcttc        300
ccgggctact tcctcatcgt tatggaattt atccagtggt cgaaagataa cggcgtaccg        360
gtagggccag gccgtggctc cggtgcgggt tcactggtgg cctacgcgct gaaaatcacc        420
gacctcgatc cgctggaatt tgacctgctg ttcgaacgtt tccttaaccc ggaacgtgtc        480
tccatgcctg acttcgacgt tgacttctgt atggagaaac gcgttcaggt                   530
```

<210> 2793
<211> 349
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(350)
<223> similar to gi146824 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 2793
gttgggcatt cagatgcgat gattggcact gccgtgtgca atgcccgttg ctgggagcag         60
ctacgggaaa atgcctatct gatgggccag atggtcgatg ccgataccgc ctatataacc        120
agccgtggcc tgcgcacatt aggtgtgcgt ttgcgtcaac atcatgaaag cagtctgaaa        180
gtggctgaat ggctggcaga acatccgcaa gttgcgcgag ttaaccaccc tgctctgcct        240
ggcagtaaag gtcacgaatt ctggaaacga gactttacag gcagcagcgg gctattttcc        300
tttgtgctta agaaaaaact caataatgaa gagctggcga actatctgg                    349
```

<210> 2794
<211> 348
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(349)
<223> similar to gi146119 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 2794
gggatggtgg gtctgcaaac cgcgcatcgt tacggtaacg caacgctgct ggcgtctgac         60
atggtgtttg gtatcggtaa ccgttttgct aaccgtcata ccggctcggt agagaaatac        120
accgaagggc gcaaaatcgt tcatattgat attgagccga cgcaaattgg tcgcgtgctg        180
tgtccggatc tcggtattgt ctctgatgct aaagcggcgc tgacactgct ggttgaagtg        240
gcgcaggaga tgcaaaaagc gggtcgtctg ccgtgtcgta agaatgggt cgccgactgc         300
cagcagcgta aacgcacttt gctgcgcaaa acccacttcg acaacgtg                     348
```

<210> 2795
<211> 560
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(532)
<223> similar to gi1805568 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2795
gcagactgtt ctgccaacca cgacgctgcg cgaagtgaaa gaactgaccg agcgtaacgg   60
tttttgcgggc tatccggtcg ttaccgaaga aaacgaactg gtgggtatta tcaccggtcg   120
tgacgtgcgt tttgttaccg acctgaacca, gccggttagc gtttacatga cgccgaaaga   180
gcgtctggtc accgtgcgtg aaggtgaagc ccgtgaagtg gtgctggcaa aaatgcacga   240
aaaacgcgtt gaaaaagcgc tggtggttga tgacgaattc cacctgatcg gcatgatcac   300
cgtgaaagac ttccagaaag cggaacgtaa accgaacgcc tgtaaagacg agcaaggccg   360
tctgcgtgtt ggtgcagcgg ttggcgcagg tgcgggtaac gaagagcgtg ttgacgcgct   420
ggttgccgca ggcgttgacg ttctgctgat cgactcctcc cacggtctct cacaaggtgt   480
tttgcatggt atccgtcagg gccgtgccag tcatcccgat gtacgggtac cgacaacgaa   540
tcagtggtca gtgctgacct   560

<210> 2796
<211> 486
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(488)
<223> similar to gi41645 in the genepept database release 114,
   .Run with FASTXY 3.3t00, default parameters

<400> 2796
gggacaaacc agcgtgctgg aagccatcta tacgctcggc catggtcggg cgtttcgcag   60
tttgcagatt ggtcgcgtca ttcgccatga gcaggaggcg tttgttctcc acgggcgatt   120
acagggcgaa gagcgcgaga cagcgattgg cttaaccaaa gacaaacagg gcgacagcaa   180
agtccgcatc gacggtacag acgggcataa ggtcgcggaa ctggcgcacc tgatgccaat   240
gcagttgata acgccagaag ggtttacttt actcaacggc ggccccaaat acagaagagc   300
attcctcgac tggggatgct ttcacaacga acccggattt ttcaccgcct ggagcaatct   360
caagcgattg ctcaagcagc gcaatgcggc gctgcgccag gtgacacgtt acgaacagct   420

1628

```
acgcccgtgg gataaagagc tgatcccgct ggcggagcaa atcagcacct ggcgcgcgga    480
gtatag                                                               486




        <210> 2797
        <211> 254
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (6)...(257)
        <223> similar to gi440403 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




        <400> 2797
tcgagatcga cacggctgac ggattgatta tggtggactg ctccattgcc ttgaaagcgg     60
aagatacgct ggcattactg cgtaaaagcc tggggtcgtt accggttgta ccattgagca    120
tggaaaaccc gattgaactg acgctgaccg aatgggttcg ctccggtagt gcggcacagg    180
gcttccagct gcttgatgaa gccgagctga aatcgttgct ggaagatggc ggcgtgatcc    240
gcgcgaagaa acaa                                                      254




        <210> 2798
        <211> 358
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3)...(361)
        <223> similar to gi41934 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




        <400> 2798
atgctgccga tccagaagct gctgcctgtg tcttccgcag tggtattgaa atcgtcatgt     60
gcggtttgga tgtcaccaat caggcaatat taactcctga ctatctctct acactgccgc    120
agttaaaccg taccgggaaa atgcttcacg ccctgtttag ccactaccgt agcggcagta    180
tgcaaagcgg cttgcgaatg cacgatctct gcgccatcgc ctggctggtg cgcccggacc    240
tgttcactct caaaccctgt tttgtggcag tggaaactca gggcgaattt acctcaggca    300
cgactatggc tgatatcgac ggttgcctgg gcaagccagc caatgtacag gtggcatt      358




                                1629
```

<210> 2799
<211> 485
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(488)
<223> similar to gi1742453 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2799
ccccttataa cgatgaactg gcaatgggat tgcagcagaa aatcggtaag aacgttattg   60
cgcgtgcaaa ctatgtttac cgtgaagcgc atgatcaaat cagcaaaagc agtcgtaccg   120
acagcgcgac taaaaccacc attactgaat ataacaacga tggcaaaacc aaaacgcatt   180
cgttcagcct cagttttgaa ctggccgaac ccctgcatat ccgccaggta gatattaacc   240
cacaaattgt ctttagctat atcaagagca agggcaactt gccgttaaac aatggttatg   300
aggagagcaa taccggtgat aaccaggtgg tttataacgg caatctggtc tcttacgata   360
gcgctccagg ggcagatttt aataacccat taaagatctc cttaaacatg gatttcacgc   420
atcaaccgag cgggttagtg tgggcgaata cgctggcctg gcaagaagcg cgtaaagctc   480
gcatt   485

<210> 2800
<211> 344
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (10)...(345)
<223> similar to gi1789805 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2800
actctagagg atctgctgat ggcgttagat ggagagcaac atcttcagca acaggtatcg   60
gaaaaagtat tagccgataa tgtgttaatt gccctggtt ctgttaaacc tgatgcgaca   120
ttctggtcgg ccttaatcca ggatcgctat aacgtgatga cctgtattga aaaagacgcc   180
tgcgtcctgg tcgagcaaga tctgaatagt gatggtcagg cggagcggat cctgtttgct   240
tttaatgatg acagagtcat tgtctatggc tttgactcag acagaaaaga atgggacgcg   300
cttgatatga gtttacttcc gaacgaaata acgaaagaaa aatt   344

<210> 2801

<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(411)
<223> similar to gi1799797 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2801
```
atttcctgtt agcgttcaaa accacatttt tgctcccgat tctttccgcc atttttgtca      60
tgctggcgat gtactacgtc atcaccccct ttggtggctg gatcaacggc ggtatccgta     120
ctgtgctgac tgccgcaggt gagaagggcg cgctgatgta cgcaatgggg atcgccgcgg     180
cgacagcaat cgaccttggt ggcccgatca acaaagccgc aggttttgtt gccttcagct     240
ttaccactga ccacgtatta ccggtcaccg ctcgttctat cgctatcgtt attccgccga     300
ttggtctggg gctggcgacc attatcgacc gtcgtttaac cggcaaacgc ctgttcaacg     360
ctcaacttta tccgcagggt aagaccgcca tgttcctggc gtttatgg                  408
```


<210> 2802
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (68)...(410)
<223> similar to gi4902923 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2802
```
actgtccgta cccgtacatc gtcaagactg ggagcacccg ggggatgccc aactcagtcg      60
gcttgctgaa cacatcaaag ctgaagtcgc gccagacctt tcagttcatt tgctggatgg     120
gatgggccgt gaggcgatgg tcgccagcga tgcggcgcta ctggcgtcgg gtacggcagc     180
cctggagtgt atgctggcga aatgcccgat ggtggtggga tatcgcatga agccttttac     240
cttctggttg gcgaagcggc tggtgaaaac tgattatgtc tcgctgccaa atctgctggc     300
gggcagagag ttagtcaaag aattattgca ggaagagtgt gagccgcaaa aactggctgc     360
ggcgctgtta ccgctgttgg cgaacgggaa aaccagccac gcgatgcc                  408
```


<210> 2803
<211> 379
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(382)
<223> similar to gi1736747 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2803
ttcgcatcct cggcattggc ccgtgggaaa gacgcctgcg caccctcatc gaacaatatc   60
aactggaaga tgtggtggag atgccgggct ttaaaccgag ccatgaagtg aaagcgatgc   120
tcgacgacgc ggatgtcttc ctgttgccat cggttacagg tgcggatggt gatatggaag   180
gtattccggt ggcgctaatg gaagcgatgg cggtcggtat tccggtggtt tctactctgc   240
atagtggaat accggaactg gtggaggctg acaaatccgg ctggctggtg cctgagaacg   300
atgctcgcgc cctggcccaa cgactggcgg cgtttagcca attggacccc gacgaattgg   360
ctctgttctt caagcgcgc   379

<210> 2804
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(341)
<223> similar to gi42996 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2804
ccggtcaatt gtggttgggc gtaagcgtga gcgtgtgcat gagctggcaa actggctgcg   60
cgaagcgggc atcaacaact gctatctcga aggtgagatg gtacagggca agcgtaacga   120
agcgatcaag cgtttgaccg aaggtcgcgt aaacgtactg gtcgcaaccg atgttgccgc   180
gcgcggtatc gacattcctg acgtcagcca cgtctttaac ttcgatatgc cgcgcagtgg   240
cgatacttat ttgcaccgta tcggacgtac cgcgcgcgcc ggtcgtaaag gcaccgcaat   300
ttcgctggtg gaagcccatg accatctgct ggtgggtaa   339

<210> 2805
<211> 571
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(573)

1632

<400> 2805

```
cggccctata gttgaaatta gcggggcgga cccgcgtttc gaaccactga acgcgacggc    60
aaatcaggat taccagcgcg acggtaaaag ctacaaaatc gtgcaggatc cgtctcgatt   120
tagccaggcg ggactggcgg caatctatga tgccgaaccc ggcagtaacc tgacggcctc   180
tggcgaagca ttcgatccga cacagctgac ggcagcccat ccaacgcttc cgatccccag   240
ctacgccaga atcactaacc tggctaacgg gcgaatgatc gtggtgcgca ttaatgatcg   300
cggcccttac ggcaacgacc gcgttatttc actttctcgc gcggcagctg accgtcttaa   360
cacgtcaaac aacaccaaag ttcgtatcga tccgattatt gttgcccagg atggttcgct   420
ttctggtcct ggtatggctt gtaccacagt cgccaaacag acttacgccc tgcctgcacc   480
tcccgattta agcggtggcg cgggaacaag ttcagtgtct ggcccgcagg gtgacattct   540
tccggtcagt aattcgacgc taaaaagcga a                                  571
```

<210> 2806
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(339)

<400> 2806

```
cctgtggtag tgctgtcgag tatagcctat gttgccacct ttatgtgtct ggtgaaaagg    60
ttgcacctga tccagaacat ctcatgcgtt cgcgttactg cgcttttgtg atgcaagacg   120
cagattattt aataaagacc tggcatccct cttgtggagc agcggcgtta cgtgccgaat   180
tgatggccgg atttgcgcat actgaatggt tgggattgac cgtatttgaa cattgttggc   240
aggacgccga caatatcgga tttgtcagtt ttgttgctcg atttaccgaa ggtggtaaaa   300
caggtgcaat aattgaacgt tcgcgatttt tgaaag                             336
```

<210> 2807
<211> 530
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(532)

Run with FASTXY 3.3t00, default parameters


```
    <400> 2807
tgccggtcac cgatttgccg gtggaatgct cgacacctgg aacttgcagt ccttagggcc     60
gatgaccgcc atttcagcag ggaagattta cggcctttcc tggggaaacc aggccagctc    120
caccatcttc gacagcagcc agtcagccac gccagtgatc gccttttac cggcggcggg      180
cgaagtacat ctcacccgtg atgggcggct actaagcgtt cagaacttca ctatgggcaa    240
tcatgaagtg datacccggg gtctaccgta cgggatttac gatgtggaag ttgaggtgat    300
cgttaacggt cgcgtgatca gcaaacgcac ccagcgggtc aataagctgt ttagccgggg    360
gcgcggcgtc ggtgcaccac tggcgtggca ggtatggggc ggtagctttc atatggatcg     420
ctggtcggaa aacgggaaaa agacgcgacc agctaaagag agttggctag caggtgcctc      480
gacctccggc tcattgagta cgcttagctg ggcggcaacg ggatatggat                 530
```


```
    <210> 2808
    <211> 355
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (242)...(330)
    <223> similar to gi2588974 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```


```
    <400> 2808
aaagaccaaa ctgcagcctt gagttcaggt agttatgtaa aatgtgatga gacgcaggag     60
tgatgtaatt actccagtgt gaatgcattt ccctctctgc ggttttactg ggtcaagtgc     120
accgctgcat taattaaaca aatgcgtaat taattacagc aaatccacaa caacaacaaa    180
atagtccctt gcccaggccc catgtttcag ttctaaaata agacgttctc tgttgaatta     240
ggtggaaacg gccacagatt ctgacacgga gagccgcggt ctgcgggaat accactctgt     300
cggggtgcaa gtggaagatg agaagcggta actcagcccc tcctgacact gtgtg          355
```


```
    <210> 2809
    <211> 723
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (26)...(725)
    <223> similar to gi42431 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

<400> 2809
```
tacgaactct aggtccgtac ccggagatct ggctctgaag gggctacgtg ttttgctcgt      60
ggaaggtaac gacccccagg gaacagcctc aatgtatcac ggatgggtac cagatcttca     120
tattcatgca gaagacactc tcctgccttt ctatcttggg gaaaaggacg atgtcactta     180
tgcaataaag cccacttgct ggccggggct tgacattatt ccttcctgtc tggctctgca     240
ccgtattgaa actgagttaa tgggcaaatt tgatgaaggt aaactgccca ccgatccaca     300
cctgatgctc cgactggcca ttgaaactgt tgctcatgac tatgatgtca tagttattga     360
cagcgcgcct aacctgggta tcggcacgat taatgtcgta tgtgctgctg atgtgctgat     420
tgttcccacg cctgctgagt tgtttgacta cacctccgca ctgcagtttt tcgatatgct     480
tcgtgatctg ctcaagaacg ttgatcttaa agggttcgag cctgatgtac gtattttgct     540
taccaaatac agcaatagta atggctctca gtccccgtgg atggaggagc aaaattcggga    600
tgcctgggga agcatggttc taaaaaatgt tgtacgtgaa acggatgaag ttggtaaagg     660
tcagatccgg atgagaactg tttttgaaca ggccattgat caacgctctt caactggtgc     720
ctg                                                                   723
```

<210> 2810
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (344)...(737)
<223> similar to gi3287191 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2810
```
tttaaaacaa ttacagagaa aactttattt tgggccattt aggaggttta gatcattttg      60
atcatcttca gctgtcttct cttcacatac aggaaaggcc ttggaaagca gtcgttgcgc     120
cagacagccc agggaagagc ggcagcctga ggacctaggg ccacctgctg ttccctggga     180
ttcatgtcct tctggggagg agggaggacc caggacaatg gctgctgttc atgatctgga     240
gatggagagc atgaatctga atatggggag agagatgaaa gaagagctgg aggaagagga     300
gaaaatgaga gaggatgggg gaggtaaaga tcgggccaag agtaaaaagg tccacaggat     360
tgtctcaaaa tggatgctgc ccgaaaagtc ccgaggaaca tacttggaga gagctaactg     420
cttcccgcct cccgtgttca tcatctccat cagcctggcc gagctggcag tgtttattta     480
ctatgctgtg tggaagcctc agaaacagtg gatcacgttg gacacaggca tcttggagag     540
tccctttatc tacagtcctg agaagaggga ggaagcctgg aggtttatct catacatgct     600
ggtacatgct ggagttcagc acatcttggg gaatctttgt atgcagcttg tttttgggtat    660
tcccttggaa atggtccaca aaggcctccg tgtggggctg gtgtacctgg caggagtgat     720
tgcagggtcc cttgccagct tcat                                            744
```

<210> 2811
<211> 630
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (65)...(623)
<223> similar to gi5305333 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 2811
agagtcaaat agcagatgca ggaagatgcc aggtgaaaga tgccggggtg gcccagctcg      60
gctgtccctg ctgcttgacc tgcccactcg ccctcttccc caccccgac aggtgattga      120
cttcggatcc gccagcattt tcagcgaggt gcgctacgtg aaggagccat acatccagtc      180
gcgcttctac cgggcccctg agatcctgct ggggctgccc ttctgcgaga aggtggacgt      240
gtggtccctg ggctgcgtca tggatgagct gcacctgggc tggcctctct accccggcaa      300
caacgagtac gaccaggtgc gctacatctg cgaaacccag ggcctgccca agccacacct      360
gttgcacgcc gcctgcaagg cccaccactt cttcaagcgc aaccccacc ctgacgctgc      420
caacccctgg cagctcaagt cctcggctga ctacctggcc gagacgaagg tgcgcccatt      480
ggagcgccgc aagtatatgc tcaagtcgtt ggaccagatt gagacagtga atggtggcag      540
tgtggccagt cggctaacct tccctgaccg ggaggcgctg gcggagcacg ccgacctcaa      600
                                                                       630
gagcatggtg gagctgataa gcgcctgctc


<210> 2812
<211> 849
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (286)...(607)
<223> similar to gi469478 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 2812
tgtgtctttt gttgggatac tccacagcgg ccgctgcaga gtgaaggcgc tgcagcgctg      60
gtcaccaagg ggtgccagcg attggcagcc cagggcgcac ggcctgaggc ccccaaacgg      120
aaatgggccg aggatggtgg ggatgcccct tcacccagca aacggccctg ggccaggcaa      180
gagaaccagg aggcagagcg ggagggtggc atgagctgca gctgcagcag tggcagtggt      240
gaggccagtg ctgggctgat ggaggaggcg ctgccctctg cgcccgagcg cctggccctg      300
gactatatcg tgccctgcat gcggtactac ggcatctgcg tcaaggacag cttcctgggg      360
gcagcactgg gcggtcgcgt gctggccgag gtggaggccc tcaaacgggg tgggcgcctg      420
cgagacgggc agctagtgag ccagagggcg atcccgccgc gcagcatccg tggggaccag      480
attgcctggg tggaaggcca tgaaccaggc tgtcgaagca ttggtgccct catggcccat      540
gtggacgccg tcatccgcca ctgcgcaggg cggctgggca gctatgtcat caacgggcgc      600
accaaggtaa ggctaggtgg gggcctcttt ggaggggctt tgcagcaccc tggtttgcag      660
cattcagtgc tctgagcaca gtgggtttgg agacaggctt ctgggaggtc acagaaggtt      720
taagcagttc agtggagtgg gtatgcttac ttgtggggac ttggggggt ctttatcctc      780

```
cctacgggcc ttaatgtgtg cacctgataa gctaggagtt tgtcctggag ccaacgagat      840
cgtcgaacc                                                               849
```

```
<210> 2813
<211> 916
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (38)...(762)
<223> similar to gi467292 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters
```

```
<400> 2813
ggttcgacga tttcgtcctg gaaaaactgt gggtggtgaa cagagagaac agcatccatc       60
atctggagaa aaactaaaat acaaccagca aggggaagta caacaacttc accagaattt      120
gcaccggctc cagattctat gcaactcagc tgaaaatgag cttcgatatg aacgagggca      180
gaacttggac ttaaagcaac ataatagctt acttcaggaa gaaaacatta agataaagat      240
tgaactaaag catgcccaac agaagttatt agacagcaca aagatgtgct cttcactcac      300
ggcagagtac aagcactgtc agcagaaaat caaggaactg gagttggaag tacttaaaca      360
cactcagagc attaaatcac agaacaacct acagggaaag ctggttcagg agaaatctaa      420
agttgctgat gcagaggaaa agattttgga cctgcagcgg aaattagaac atgctcataa      480
agtctgtctc acagacactt gtatttcaga gaagcagcag ctagaggaaa agataaaaga      540
agcaacacaa aatgaagcta aagtaaagca acaatatcaa gaagaacaac agaagaggaa      600
acttctatat cagaacgtag atgagttaca caggcaagtg agaaccttac aagataaaga      660
aaatctactg gaaatgacct gttctcagca acaatccaga attcagcaac aagaggccct      720
acttaaacaa ctggaaaatg aaaaaagaaa atatgatgag gtaagaaagt aaatagacat      780
gcttctcagt tttcctattc ccattagtaa cagctaatta ttattgagtg cctagcactt      840
tactaaacct aatcctttag tcagggttca gtcaggaaag tagaatctac tctaggtatt      900
tcaagcaaga agagaa                                                       916
```

```
<210> 2814
<211> 385
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (215)...(387)
<223> similar to gi804996 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters
```

<400> 2814

```
caacagtcta aagctaaaac tctttagtag atataagcaa agagaaaaaa gggccagaat      60
ggataggaag ggactcccaa aatctgagca taccacccccc ttaaggataa atgttgctag     120
acacccataa ttgaggttag aaagaggaaa gaaggaaaag ttagtgggct atagaggggga     180
aggatgtgat gtgagcagat gggtctcact cattctgctc tgtgcagagt acctgaacta     240
tgaggatggg aaattctcta acagccgcgg tgtgggagtg tctgaggaca tggtccacga     300
cacggggatg cctgctgaca tctggcgctt ctatctgctg tacattcggc ctgagggcca     360
ggacagtgct ttctcctgga cggac                                           385
```

<210> 2815
<211> 1362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (24)...(1362)
<223> similar to gi2094864 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2815

```
cggacgcgtg ggcggacgcg tgggttccag aagtgcttgc tgttatccag gtgtgccttg      60
aaggggagat ttctcgccag tccatcttga acagtctgtc tcgaggcaag aaggcttcag     120
gggacctgat tccatggaca gtgtcagaac agttccaaga tccagacttt ggtggtctgt     180
ctggtggaag ggtcgttcgc attgctgttc acccagatta tcaagggatg ggctatggca     240
gccgtgctct gcagctgctg cagatgtact atgaaggcag gtttccttgt ctggaggaaa     300
aggtccttga dacaccacag gaaattcaca ccgtaagcag cgaggctgtc agcttgttgg     360
aagaggtcat cactccccgg aaggacctgc ctcctttact cctcaaattg aatgagaggc     420
ctgccgaacg cctggattac ctgggtgttt cctatggctt gacccccagg ctcctcaagt     480
tctggaaacg agctggattt gttcctgttt atctgagaca gaccccgaat gacctgaccg     540
gagagcactc gtgcatcatg ctgaagacgc tcactgatga ggatgaggct gaccagggag     600
gctggcttgc agccttctgg aaagatttcc gacggcggtt cctagccttg ctctcctacc     660
aggtcagtac cttctctcct tccctggctc tgaacatcat tcacaacagg aacatggga      720
agccagccca gcctgccctg agccgggagg agctggaagc actcttcctc ccctatgacc     780
tgaagcggct ggagatgtat tcacggaata tggtggacta tcacctcatc atggacatga     840
tcccggccat ctctcgcatc tatttcctga accagctggg ggacctggcc ctgtctgcgg     900
ctcagtcggc tcttctcttg gggattggcc tgcagcataa gtctgtggac cagctggaaa     960
aggagattga gctgccctcg ggccagttga tgggactttt caaccggatc atccgcaaag    1020
ttgtgaagct atttaatgaa gttcaggaaa aggccattga ggagcagatg gtggcagcga    1080
aggatgtggt catggagccc acgatgaaga ccctcagtga cgacctagat gaagcagcaa    1140
aggaatttca ggagaaacac aagaaggaag tagggaagct gaagagcatg gacctctctg    1200
aatacataat ccgtgggggac gatgaagagt ggaatgaagt tttgaacaaa gctgggccga    1260
acgcctcgat catcagcctg aaaagtgaca agaaaaggaa gttagaggcc aaacaagaac    1320
ccaaacagag caagaagttg aagaacagag agacaaagaa ca                        1362
```

<210> 2816
```

```
<211> 624
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (325)...(607)
<223> similar to gi4589582 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters




<400> 2816
ttttgccact taaaaatttc tcaaatttct tctttccacg taattgtgac ataggtatta      60
tttgtgttat atcccagatg gctcactagg gctactaatg tttagagttt gatttgtgtc     120
tttagcagta aacattttaa aagaaacttt tagcagtttt ttagggtaat tacatgtctt     180
cctttcaagg gtccagatta tagactctac aagagtgaac cagagttaac aacagtggca     240
gaagttgatg aatctaatgg agaagaaaaa tcagaacctg tttcagagat agaaacttca     300
gttgttaaag gttcccactt tcctgttgga gtagtccctc caagagcaaa atcaccaaca     360
cccgaatctt cgacaatagc ttcctatgta accttgagga aaactaagaa gatgatggat     420
ctaagaacgg aaagaccaag aagtgcagtg gaacagctct gtttggctga aagtactcga     480
ccaaggatga ctgtggaaga gcaaatggaa agaataagaa gacatcaaca agcgtgcctg     540
agggagaaga aaaagggtt aaatgttatc ggtgcttcag accagtcacc cttacaaagc     600
ccttcaaatt taagggataa tccg                                            624




<210> 2817
<211> 337
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (337)...(1)
<223> similar to gi2323287 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters




<400> 2817
cgcagggttt aacaaggccc tgcatcctta ggttattaat gatggcttct agttgtttcc      60
tagcttctgg ttttagggga tattgtcttt aattagggaa ggagatgaga tccctgagat     120
ggatttggac tggtgagact gttgtagctc agccagtatt ttcctgaatt gcccaaacat     180
ctggattaat atcagtctcc accagaggga ggcaaagagt ctgtcctgga gccataagga     240
tggtggttcc catgtgagct aaaatatccc tacctcagag gagtcgggct ttcaggtatg     300
attaaaaagg cataggtaaa cgaaaggtct ccctagg                              337




<210> 2818
```

1639

<211> 1165
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)...(924)
<223> similar to gi567232 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2818
```
aactggaaga gcaggtgaag aggctccttg ggtgggcacc cctggcgtcc tcccatgagg      60
gcagcctcac aggggtgtct gcctgtgagt tttgttacag ggcctcacca agagagggcc     120
tatggaggcc gaggaccagg gggagctttt cctgcacctc cggtcagtgg cacgtgcccc     180
ccagacctta tctatgcacc gactccagag aaagctgaag gaggcagcca gaaaaatcat     240
cagcctccgc ctggagaaag agcagctcat cgagatgggg aacaggctcc gtgcagagct     300
gggccgaccc gaaaggtggc tgttgcacca cgccctccct cctgcccctg aggcccggaa     360
gccaggcgag gagcccagga ggcctttgga tcgcagccca cctttgggac aggtgcagcc     420
ccattttaca tctcaggacg ccaagagtgc cgaggatgag gctccttcca gacacttggg     480
aaagcaccag ccccgctcag cacaggtggg cagcagactt gacgccctgc aaggcccgaa     540
gacacaacac agcatccaca cggtgacctg taaatcacct cggcagaaag aagacaggtc     600
cccaaagcca ccccaggctc ccaagcaccc tgaggagcat ggtcgccaat cccacagctc     660
ctcctccttt gccagtggca ccctccagga catgtggagg ttgctagacc tgggatccag     720
cccttctggt gtcacctccc agggtgactc aactccagag ctcccagctc ctccagcagc     780
cgacaggagg cccgtcaaga tgcaggcagg cattgccacc ccagggatga agacagcagc     840
ccaggcaaag gccaagacca caggagcctc ccggtctcat cctgcaaaag ctaaaggctg     900
ccaggggccc cccaagatcc gtaactacaa cattatggac tgacttcctc cccccacccc     960
gccccactaa ggggtgctcg gggcctccgc atggtgcctg tgctttcacc tacatgttgt    1020
ggggggggtgt gggcacagcg tgcagggtgg aggcagggag ctgcagggca ggctcccaaa    1080
tgctgctgag gcgaccctgc tgactgaagg cctccctgag cacagggccc attaaaacca    1140
ggttcctccc tggggaaaaa aaaaa                                          1165
```


<210> 2819
<211> 5176
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5177)...(1858)
<223> similar to gi5689369 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2819
```
ttatttcccc cccccaaaat aagggtcctt cccaaaaatc cccaggtagg ttttaattcc      60
cccccctata aggaaaaaac ttttcccttg caagcccgcg taaactttgg cccccccaag     120
gatcctttaa aacggccccc ccttttttttt tttttttattc cagagaagtt tgtatttggg     180
```

```
ccttaagctt ttgaaaataa agtttagaga catagcatat gaataccact gtaatacaca    240
tgaaatattc tatcagaccc taaaaattaa cataaacttt taactttctc atagtcaaca    300
aaatagtggc tggttgccaa ttttattaga taagttggtt acagcatttt aattatcatt    360
ttacgtctat ctaggtgtag ctgaaattca aaatgcacat caaagtaaaa ctatatcaca    420
actcaatgcc atactaaatg tacttggcct ctgcaataga attctagtca gacttcattt    480
tttactccct tcttatgacc caagtggctt taacaggaat gcaggactta gtgctgatca    540
tcacacaaca taccactttc tttttagaac ctctacaaaa ttttgagggg agatggtggc    600
attagccctg tggaacagat cttgatcacc tcaataacac tggcccatta tctgtccctg    660
cctgaaccca ttggtgaaat agtacaaggg tgcacaagcc cttcactgat tacatggcaa    720
gtgttacagt agccttagcc attagggaag ggggaggtta catcataggt acaaaataca    780
gtataaaagc gttatttaac cattccacac tggagggtta ctctgatggc cttccaaacc    840
cagtcggttt ggatggttag cccacttaaa ccaaatacat cacttaaggt aaacaatata    900
aacataccaa aaaccctgta tggttaaata caattccat ggtacaaaaa tcaaagcctg    960
gagatgtttt tacagattgc tttttacaca atgtcttaaa ttgccaaata tttacaacat   1020
taaagaggaa atacattgtg atgcagagta aaattctgaa atgattatta taaaacctca   1080
atctatctac gtgaggcact cctgaagcaa gtggcattag ccatgaggtc ctttggtaca   1140
aggcccattg cttgaagaac cacagtagct gctgtggctt tagcatgctt cttattaggg   1200
ctggcaaagc tgggctggta agcgcttcca tttatcaata cctattcaag aaaaacatac   1260
aattgggctg gtaagcgctt ccatttatca ataccctaaa gagaaaatgt ttgcgatgat   1320
cagggccact atcatggacc aatagaaatt caggtggttg ccaccttctt ttattacaga   1380
tctccatcaa agcagacaca ggatgtttgc ctgacagatc tttcattgca gcagagaagt   1440
tcccagacct cttttgtgct ctttctccta ctgcaacaag acctttcgg tctgtcttaa   1500
aatcaactag gatgggttcc ttattgcctt ctttgttttt tcctaatcct tctccttctc   1560
tccagcccat ttttctcatc aaaacggctc ccattcctcc agttaccggg gctgctctta   1620
agaactgatc cttttaatc caggcttggg caccagtatt ggccaactgt tcttgtgtca   1680
aaacctgtac tcctgtactt cctgtgaact ggccaggaat agagttcagc tgagcccagg   1740
catcaatcct ttcctgagct ctatttaaca tgctcatggc ttcaagatca aatgcattct   1800
cactgagtct tttctgagca agtgcccgtt cactcattgc tgtagagatg tccacaggct   1860
ctgagggcaa attgctgctg aaaacattat catcatcttt gttttcttca ccatttttct   1920
ccacaggaac ccattctcca taaacactat ccgcttcttt tttccgatgt tgagatccag   1980
atgatacagg gaattctttt gttaatgtta cctggctttt tggtggagtt ggttttgctg   2040
cagcaatatt cagattgaaa aaaataggtt tgggttcact gagtttaaag ggatgatgat   2100
aaaaaggagg ttcttcttcc tcttcatccg aaacatgagg tttattcact attacatcat   2160
catcttcttt actctgtgcg atctgtttac atttctcagt tagttcttct atagtagctc   2220
ctcctgactt tttagcaact ttctcttcta tagtaggtgg aggtgcaggc tttaggtttg   2280
gtggtaaagg gacaccagcc ttagcacaca tggcagctgc attagctttg gctatttcaa   2340
gtaattgagc cttatccaaa tctgtcagac gtttgggtga tctgcctcgt tcagaagacc   2400
tggatctttt acgacggatg ggagatctgc taaaccttct tcttaagggt gttcttgatc   2460
gccttaatct gactggtgag atactgaagc ttcgtcttct taccacagac cttgatcttc   2520
tccggcggct tggggtgcgg ctccgacggc taggggtgcg gctccggcgg ctggggggtgc   2580
ggctgcggcg gctggggggt cggctgcggc ggctgggggt gcggctgcgg cggctggggg   2640
tgcggctgcg gcggcttggg gaaatgctaa agctccttct tctacccaca gatctagacc   2700
ttcgtcgacg acttggagta tgactccgac tccgacgact tggggttcga cttcgagctc   2760
taactgtctt tcggttatcc ctggagcttg atcttttct ttttctttcc ctagacttgg   2820
atctgtgctt tggagatctt ttgcgcttct cttttgatac agatcttctt cctctagact   2880
ttgatcttga tctgctgctt ctcctcctgc ggtcttggaa cgtgaccgtg aacgtgtctg   2940
aagagcgatg agacttggac ttagatgatc tctttcttgc cctagaacga gattcactgg   3000
taagcttgcg tgatttgtgt tcagaagatt tggaacgctt acttcgagat cttaatgaag   3060
agtctctttt cttctctttc tcccccttat cacggttctt attttcttg ctttttcgt   3120
gagtgtcctt aacttttaca aaaatttcac taaccacctt tttccccga agaaagaccc   3180
ggaagctctt tcctggcata ctactttaca accgggctgg aataaagatt ctgtaccggt   3240
ccaaaatcac ttgcaagtaa aaggcccttc aaaggccagc tctagggctt ggaaggacgt   3300
tccatgtcct aggggaagaa accggtctca ctaaatctgc ttcattaata tcctcaatat   3360
tggcagaaaa tcctgaatca ggcaagtgct ctctttagga ggggggaggt acttcttttt   3420
ctcctccact actttcttta agactgaatc agagctgcta atgtctggta catctctttt   3480
tacgggtaat ggttcattcg tatcactact aacaaggtta atattagatg gtaaatcaag   3540
atgaatatct ttagcaggca aaggcccttc aatgtcagct tcactaccac cactaggact   3600
```

1641

```
ggtggaaatt agcatgtcat gttcagtatc ttgagtagtt aaagataaat caacatcata    3660
tttattaact aaactgagag tagatgctgt ggtaaattca atacccttac tagttccctg    3720
ttgcatcagg ttccagagca aaaggaccag tagaagatag agtttctcct gcatcagctt    3780
cactaacacc agggtaggta tccaatactg tgcgctgttt agtctcactg gtgggcaaaa    3840
ttttctcttc accaatttcc ccaacaggac tagtaccagc agcacacact gtattatgtt    3900
ccatctcttt agcaattaaa tgattattta tattaaggtc tatatttata ccatgttcgc    3960
tttcgtaaaa gtcacctttc aggtgttcct cagcatgtgg ttcttcacct gaatgcaatg    4020
caatctcctg catgccaatc tctggagcaa gattttgatc accagaggat agattaattc    4080
ctttcataac atgtgatgac atgatactag attccagtat cattggtgtg gactctatag    4140
ccacctcagt tggtattact tgagtctgct ctgagactgt gacagcaggc tctgaaactg    4200
tcacagtcga ttcctggaca gaaacagatg gttctgaaac aatcatagaa ggttgaagga    4260
ctgacaccgc tggttccaga acaggcacag aaggctccag cgcagaaaca actggcacag    4320
gaatggtaac atagtctggc tcagccacaa caggaggctc cgggacagtc acaaccgaag    4380
gctccaggac agttacagtc gaagactcca ggacagtcac agtcgaagac tccaggacgg    4440
tcacagccga agactccagg acagccatag ctgaagactc tggggcagcc atggctggcg    4500
gctccagaat gctctctgcc agcactggag tagttactgc tggaaccaac aaggatgtag    4560
atacttctga ggcaacatgt cctgaggctc tcatggaatc aaatgtttct gctgtctctg    4620
acataacagg aggctctgat gctaacacag ttggttcagc tgacatggcg ggagtttcag    4680
ataccataca agtcactggt ctctctggaa caacttcatg ttcttctgct actactgcag    4740
actctacagg tgttaacgta attgaagatt ctggctctgg tggtggttct ggaacagtca    4800
cagcagcctc tgatactaaa actgagggat ctgatgctga cactgaataa tcagtaggca    4860
ctgctgaagg ctccgaaatc tcactttgac tcacaggagg ctcaggctgc gatacagact    4920
cttcagatgg taatgatggc acctctgtag gccaagtatt ttcagctgtt aatgctgact    4980
gctcagtggg caatgctgga ccctctggtg gttcctcagg aggcaatggt ggtgtcattg    5040
gtggctcctc aggtggcaac ggtggcattg ttgggggctc ttcaggaggc aaaggtggca    5100
ccatatatgc ctctgtatat gtgtcagtgt aagaatcggt gtaagaatca gcagccatag    5160
acatcattga acgatc                                                    5176
```

<210> 2820
<211> 2295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2285)...(1610)
<223> similar to gi505098 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2820
```
tttttttttt ttaagattcc agcttttttt attttttccc cttttacaca aaacaaagta      60
gaagaaataa tacaggatta aaactgcaaa agtagttaat cagtagaata tgtatgcaca     120
caaaaaatcc agataggaag acaggcttat ttacaatgaa agtaaggtaa aattaacgta     180
gttttcttat gaaataataa aaaaaaatca aacatatgct acaatgggca ccactgttca     240
cagcaatatt aaagaggaga aaacaacact tatttaatag ggacagatat accacaaggt     300
acaacatcag tgcaataaat tcacaaaact atattacagc tagttaatca gtttaagaat     360
tgttcccgtc agtcacattt tttggccctc agaagttcat tcctaaagat ttcaactact     420
ctaaatttct agctaccaag aagttaagaa tgattataag aagctttcca aggagttatg     480
aaatctttgt agaccagagg ccaactatca tcacctcaag tctgctctca ccaacagccc     540
ttgtattttt cagggagaaa tctctaggaa aaaagtcaga caccagtgta gtcactatct     600
```

1642

```
cccatgtcaa acctagggga ctaaaatggt cagtattacc ataaaatgat aattttgagg    660
tttaccttaa aaggcttatt ctggtctcaa aaattagata agattatctt ctactgaaat    720
gaatattgac taaacataga agactgctgt cctttttgcca gtcttagagt gaaagtcata    780
gacatgagtc ttaacctact gtatactata gctaatgtca gctgaaaatc tgaaattaaa    840
agcatgctag aaatcctaaa tgcaatcttt tggaagtctg ctattaaaaa gcctttaagg    900
atttactaac ttcgagtcta agtgcaaggg gacgaaagct taagcctgtc agacattcct    960
tttcttggac aaaaagatca aagtttccta caaattgcta agctttgcac aagggagaag   1020
cctacatgta ctagtgcatg gaatcagttt catcttattt catggggact cttctcccac   1080
tggaaagaaa cagaatgagg aatgaatctt aattggtctc ttcatcagaa gtggtaaact   1140
tggtctctat attcacgaag tcagacagtt ttttaagcag actgtggaag cagacagaac   1200
cagcttcctg tagccacaga ccactacatg gtatctaagc taaagcaaag atgaacaatt   1260
atccagattc acttgaactg tactaaaggg caaggttcac cactacaaaa aggaagttgt   1320
ctaaaagcaa gaattcaatt aacgctgggt aagaaaagtc aaaacactaa tgagttgtcc   1380
atgaagccaa ctgctaagaa cgcgctcaac tatacgcgac atgaagacac tatgcacgaa   1440
gccttacttg gcgagtctga atttctatta actaagggca gagtgaggga gaacaaagag   1500
ctacttccgt aacattttag tatccagata gtacagcaga aacggttccc ggggcaatgg   1560
gtgctgcatt aatcacactg attaaagcag atgaatcatt ccgttttttcc tttttctttt   1620
tgtttgagaa gtttgtttat ctccctcttg gccattccca atgtacttca aaaatgattc   1680
ccatgttggg tttaggtcca gggaagcaat aagtaaggaa gtcactatca ggtaggtgaa   1740
gaagcaggtt gtggacttgt tgtcccaccc aagcaaaccg cagcaaggga aacgatcatg   1800
gtcatgaagt acatcttagg ttttttcttcc tttagtgtga aagagccgtt tccacccaac   1860
ccacagctct gcgtccgagt ttttactaga ttgctgcaaa tttcatggaa tctttgctgt   1920
tgttccagtg gtccatttat tggagcccaa aaattctagg cgctagaatg gggaacaagg   1980
tagtcagcca agccacaaaa acataacaaa acaggaaacg ccggacagaa cagatggatc   2040
tagatagtag ataatcagaa acaccaaaga aacccacacc catgatggca ggtggaaacc   2100
aggctctttc ccatcggagg actttatcag ccatcagcat cacttctccc catccttgca   2160
gctgttctta ccaaacttgc agtctctgca gccagcaggt tggtgctgcg attatctccc   2220
tccgccatcg tctcggggat gcagtctcta caagcgcagg ccacctccgc aacgagtcct   2280
ccactcgtgc cgaat                                                    2295
```

```
        <400> 2821
ttctatcagc tgctctctgg tgcctctgaa gagctcctca ataaacttaa gcttgagagg     60
gatttcagca ggtataacta cctgagtctg gattcggcca aagtgaatgg agtggatgat    120
gcagcaaatt ttagaaccgt gcggaatgcc atgcagattg tgggctttat ggatcatgaa    180
gctgagtctg tcttggcggt ggtggcagca gtgttgaaac tggggaacat tgagttcaag    240
cccgaatctc gagtgaatgg tctagatgaa agcaaaatca aagataaaaa tgagttaaaa    300
gaaatttgtg aattgaccgg cattgatcaa tcagttctag aacgagcatt cagtttccga    360
acagttgagg ccaaacagga gaaagtttca actacactga atgtggctca ggcttattat    420
gcccgtgatg ctctggctaa aaacctctac agcaggttgt tttcatggtt ggtaaatcga    480
```

```
atcaatgaaa gcattaaggc acaaacaaaa gtgagaaaga aggtcatggg tgttctggac    540
atttatggct ttgagatttt cgaggacaac agctttgagc agttcattat taattattgt    600
aacgaaaagc tgcaacaaaa cttcattgaa cttactctta aagaagagca ggaggagtat    660
atacgggagg atatagaatg gactcacatt gactacttca ataatgctat catttgtgac    720
ctaatagaaa ataacacaaa tggaatcctg gccatgctgg atgaagagtg cctcaaacct    780
ggcacagtca ctgatgagac cttcttagaa aagctgaacc aagtatgtgc cacccaccag    840
cattttgaaa gcaggatgag caagtgctct cggttcctca atgacacgtc tctgcctcac    900
agctgcttca ggatccagca ttatgctgga aaggtgctgt accaggtgga aggattcgtt    960
gacaaaaaca atgaccttct ctatcgagac ctgtcccaag ccatgtggaa ggccagccat   1020
gccctcatca agtctttgtt ccccgaaggg aatcccgcca agatcaacct gaaaaggcct   1080
cctacagcag gctcacagtt caaggcatcc gtggccactc tgatgaaaaa cctacagacc   1140
aagaacccaa actatattag gtgtatcaaa ccgaatgata aaaagcagc acacatcttc    1200
aacgaggctc tagtgtggca tcagatcagg tacctggggc ttttggagaa cgtccgagtg   1260
cggagggcag gctacgcctt caggcaggcc tatgaacctt gcctagaaag atacaaaatg   1320
ctttgtaaac aaacatggcc tcattggaaa ggaccagcca ggtctggtgt ggaggtccta   1380
tttaatgaat tagaaattcc cgtggaagaa tactcctttg gtagatcaaa gatattcatc   1440
cgaaacccaa gaacattatt caaattagaa gacctgagga agcaacgcct ggaggacttg   1500
gccactctca ttcagaagat atatcgggggg tggaaatgcc gcacacactt cctgctaatg   1560
aaaaaaagcc aaattgtgat tgccgcctgg tacaggagat atgcgcaaca aaagaggtac   1620
cagcagacaa agagttccgc cttagtaatt cagtcttata tccggggttg gaaggctcga   1680
aaaattctgc gggaactgaa gcatcaaaag cgctgtaagg aagcagtcac gaccattgct   1740
gcatattggc atgggaccca ggtacgtaga gaatacagga aattcttcag agccaatgct   1800
ggaaagaaaa tctatgagtt tacgcttcag agaattgtgc aaaaatactt cttggaaatg   1860
aaaaataaga tgccttcctt atctccaata gacaagaatt ggccctcaag accttactta   1920
ttcttggatt ctactcacaa ggagctaaaa aggattttcc acttgtggag gtgtaaaaaa   1980
tacagggacc aattcacaga ccagcagaaa cttatttatg aagagaaact agaagccagt   2040
gaactcttca aagacaagaa ggctttatac ccatctagtg ttgggcaacc attccaaggg   2100
gcttacctgg aaatcaacaa gaaccccaag tataagaaac tcaaagatgc cattgaagaa   2160
aagatcatca ttgctgaagt cgtgaacaaa attaaccgtg ctaatgggaa gagtacatct   2220
cggattttcc tcttaacaaa caataatctc cttcttgctg accaaaagtc tggacaaatc   2280
aagtcagagg ttccactggt ggatgtgacc aaggtatcaa tgagctcaca aaatgatggc   2340
ttcttcgccg tccacctcaa agagggctca gaagcagcta gtaaaggaga ctttctcttc   2400
agcagtgatc acctgattga aatggccacc aagctctatc gcacaactct cagccaaacc   2460
aaacagaagc tcaatattga gatttccgat gagttcctgg tacagttcag acaggacaaa   2520
gtatgtgtga agtttattca gggaaaccag aaaaatggga gtgtcccaac atgtaaacga   2580
aaaaacaacc gtctccttga agttgctgtc ccttaactgg cgcctcctct ctactttcat   2640
ggacttgttc ctttgtaata gtgcaatttg gtttttgtttt atttgggggtt cattgtatgt   2700
ttgggaatca ccaaaggctt ttagagttct ttggcaaaat aaaaatatttt gactaatcaa   2760
tttttattat tggaatagtt ttaacctttc aaatacatgt tctgtcctgg agcaggattg   2820
tagaaactaa cagtgtctat tttcatgtct gatgtgttct tcctttagtc atcatgttag   2880
gtctgtgtac cctaaatcag catattactc ataaatcatt aattaatata agcataggaa   2940
atggtcttaa aagatactgc attcattcat cagatattta ttccatgcct actctatgct   3000
aggcactgtg ctagatggta tgaaaactta ttaggaacct ttttgttttt gagaccattg   3060
cattctggct ggtttgtgct ggtttaacga catctaagaa ggtttagaaa tggtgagacc   3120
aaaacaataa ctgttaatga tggacagcat tattaggaac cctgtagtat gatatttaac   3180
aatataggct tcaagaaggg ctggtcctaa gagggggcag aaatgaatga ccaggttaaa   3240
tccctctaca tgtggtttct gtttgaaaaa aagaaaactg acatttgaac aggactttta   3300
atttgtttaa aactctggta attacttgta acagtagaaa atagaagtca ttcttatttt   3360
agaaaaagtg acagaagcag tccagtaaga ttatatgttt ctgtttctgg taaataccat   3420
atatgatcct cgaaatgata atatctccag aatattgttt tcacccaaat ttgagtagat   3480
attttaaaca cctaacaaag taaagggcta aaagccattc agatagcagt aaaacattct   3540
gtatgatgtg caataaaaca tccaagatct tttttgaaag ttttatttat aatatacatt   3600
tttgtatgag aaaggtgatt ggtacagggt gcctatttta gtcatggatc aaaatttgtg   3660
taacttgcag ggctttcttt cttttcttc aaatttacaa gggttcattt tggaaactac    3720
attttaaact ttggaatcaa attgtttctt atttgggagg ataatgtata tacattggta   3780
ttatgttaaa taataaaatt gttctaattt ggtgccattt tcctgaatca caactgtatt   3840
tttgtatctc aagctatttt catatgttat gtgtcaatgt atcatctctc agaaaggttt   3900
```

                                    1644

```
tacaatccaa acattatatg ttctctgtgt aactgaattt cacttatctt ttataaacca    3960
gaaacattaa ttgaaaatat tttctgggga ttttctcttg acttgtattt ttaaaaattg    4020
ctcacata                                                             4028
```

<210> 2822
<211> 2331
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2164)...(864)
<223> similar to gi4884550 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2822
```
tttttttttt ttctaggtcc aatggtagtt tttattcccc aggaacaaag ataatgtgga      60
gaagaaactc caaaaggaaa cagagcacgg atgacagaaa tgacaccacg gcagcctggc     120
tcaggagtca ggtagataga tggctgctcc acagtggacc tggtcatggc cctggttttct    180
tggatccaca tttgccccgt ctcttaagtg tccatctcag aggtggagga tggagacagt     240
gaggtggaaa acgtgcttgc tctacacaaa gacaaatgga tcttctattc ccagaggacc     300
agggacacca aaacctccct cttcagaatg gaggtagaca gataaaaatg agaggggctt     360
gagtgtcaca gacaatctga aagtaataat aggggctcac tgtggctggc agaactggta     420
ctgaaatggg gactacaggg gaagcagctt ccagttttat ggtggagagt cagtcctgaa     480
tcaggccctg gggcaattat aaccagagtg ctgtttctag ccacttactt caaaggacta     540
tggctatgtt gaatcagaag ccattatctt tttcccagag gatgcacttc catccctatt     600
tctggcatga tcctgctccc tacgagcctg atcctttaaa aaacagattg gcaagcgacg     660
agaaaaacgg tgcctcacat gcttgagatg tgacagcttc tcctgcaggc aagaacctct     720
cagaacaagg tcctttggta tgagctagat catccaggcc tgtccctgca gaacacacca     780
agactcatcc ctgtactaca gggtggcctc tggctatggc ctggcacagt gaggacagag     840
gcggggtcct gagtcaacat cacagggagg tctcctggag gatgcaggtg gagctgctcc     900
cctgataggc tgtgccatcc agggccatgg cctccttgtc tctgctgtcc cccagcacac     960
cattcctcgg cttctcagga aacaggccag tgtcgaggtg gtcctggccg tagctcctgc    1020
agtggagccg cttctgacag gacaacggaa ggagggacag gagctttggc aacactgggt    1080
aaatggttgc agggttcagg gaccggcctc gcattctccc tgaatggaaa tgtgcttctg    1140
agtctctggg tggaaccatc cacagcagcg ggccccatgt cctcccttgg cccccagaga    1200
ccccagcccc cacccacctc ctacatccca gcagaaaagc ctgacagcta cggacaccca    1260
aggagctcag agggcaggag cctttctccc taggagtccc cttagggccc tcttgttaaa    1320
cccctccggt gcttcatctg caccgcaatc cccacaccct taccaagtga agtagactga    1380
caaatcaggc cccaccacaa atcactgtgg tggagttgtg agcactgtac cataagtaag    1440
acaaggaata gaaccgctgc agccctgtgg gcctgggaag agcagaggtg agaacaatta    1500
gcaattcgtt ggcagggcga ttccttgggc accaatctct acttgcccgc atggtcccag    1560
ggtcttggga cccaataccc aacatttccc tggggcctct ggtggcccat cccttagcaa    1620
gacccctgtg aaagccctca aaggaggact ttgagaaaac aagaagatag caagccctgc    1680
cttacttgga gaaggtagtc aagggcatca gtgtggtcac agtggcaacg gttagattgg    1740
tgggcaggga gaagctggac ccattagagg gagagggtgg catgctgaag cccatgctgg    1800
tcacgatgct cccgatgcca atccagaagg ccatgacgag cccagccaac aggcccacaa    1860
cagcaccctg ccgagacaca gtgcaggcct gtcacaaggc cagtcctgcc agccctcacg    1920
gcagtcctca gctctcctgg tgacagccct gccaacccccc aggtccatcc tgctacacat    1980
gactgtggat ccagatgcat cactcacagg agggttagca catggaaaga acattccaag    2040
```

```
gcagaagagt cccagcagcg gtcccccaac catgccaaag atgctgattg ctgcctgcag    2100
cacaggtccc atctgggagg aaatataggc cattcctaga caaagcagcc catagccaaa    2160
ggctggggga aaaggacagg agaggaaaca agaaggtgtg agttaacaca agcaatgggg    2220
taaagcaagg ctccctgccc agccaaacta ccacctctgt ctctctggaa acaaaaggca    2280
tattacatca cgccccagct tcctcccacc aagtcctcac tcctatgtga c             2331
```

<210> 2823
<211> 559
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(299)
<223> similar to gi1938404 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
<400> 2823
aactggaaga gcctacaatg ttccccagca tgctgttggc attgttgtaa acaaacaagt      60
taagggcaag attcctgcca agagaattaa cgtgggtatt aagcacttta agcactctac     120
aagctaagag aatttcctga aacgcatgaa ggaaaatgat cagaaaaaga aggaagccaa     180
agagaaagtt acctggattc aactgaagca ccagtcagct ccacccagag aagacaatgt     240
gagagaacca atgggaagga gcctgagttg ctggaaccac ttccctatga attcatgcat     300
aatacatata tacacatata tgtgtgtgta catatacata tatacatatg tgtgtatata     360
tatgtatata tatgacctct ggactgtaaa aaaaaagtaa taaatgtaa gaaacctggt      420
aatatgacct caggtaggca tcaaggaaac atcaaccggg gaaggtatgc tggaagtaga     480
cccttgaaat ggtgatgaaa tggacttcca cgggtgaatt tatgaaggga cggatacttc     540
tctttccttt gaggttctg                                                  559
```

<210> 2824
<211> 850
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(851)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (708)...(194)
<223> similar to gi4558760 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2824
```
agcagtccaa ggttgctgta ctttctggag tcagtactcc cgaataaata gcgtgaatgt    60
tcccagtcct gcttgcaagc ataagctacc agtgagcttg tttcaggctg tgagaatgga   120
taaggacaga tggaagcaat ggtgttcttc tcagctggaa cccgatgtgg tccgtgtgca   180
gcctgacact cgaaactcat tcatcttcct ttctaagtcc tttcacatgg agtccaaccc   240
ttgggcagaa ccccagattt tcttcagtac ttcacatgtt ctctcgttgg cctgttccag   300
atccctcttc atgttgcagc acaccaaggc tttggattcc tccagcacta ttcgattaca   360
tgagacaagc ttcttgatct gagccaccaa tttcctgagt gaaggtccag gacccaaaca   420
gctgggagag aaggccgttg ccaaatgcct tctgtgtgat cagtttcaac ccactgagca   480
tcgtctcgct tgcagctggt cgtcccatga tttcggaaac gtaatggtaa atcagctgtc   540
tggaatctgc tcagaggtag aagaggttgt tggaaaccaa gtcttttgat tagcctaaac   600
catatcataa aggggcaata cggatgctcc tagtcgaatg gctgggatag tgactgcttc   660
aataatattc agtttgagtg aaatgatagc cttcacgaag ttcctcccat ccaagtactg   720
aagaggccgt accctgggcg caatctcgtg tactctgtac ttcagtgacc agatgagatt   780
ggagcgttca ctgtgctatg gccgtagatt atgtacgacg tttctggtag cttctcttct   840
gccattntaa                                                          850
```

<210> 2825
<211> 6171
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(5292)
<223> similar to gi3510695 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2825
```
atgaattcat ttctgtcttt tcccatctcc ttgtgtagtg cccggaaggc agtggatgag    60
gaagaggaag cagttgaaga acgtcgcaat atgcgaacta tctgggtgac tggcagaaaa   120
ggtttaactg aaagggaagc agcagccctt atagtggaag aagccagaat gattctgcag   180
caggacttag ttgaaatggg agtgcaatgg aatccatgtg ccctgttaca ttctagtaca   240
tgctcattga ctcatagtga gtccgaagta aaggaacaca catttatatc ccaaactaag   300
agttcttata aaaaattaac atcaaaagaa caaaagtaac acaatattta gtgattctta   360
tattaagcat tcaccaaata tagtgcaaga cttaaataaa agtagagagc atacaagttc   420
ctttaattgt aatttccaga atgggaatca agaacatcag acatgttcca ttttcagagc   480
aagaaaacgg gcctctttag atataaataa agagaagcca ggagcctctc agaatgaggg   540
gaaaacaagt gataagaaag ttgttcagac ttttttcacag aaaacaaaaa aggcaccttt   600
gaatttcaat tcagaaaaga tgagcagaag ttttcgatct tggaaacgta gaaagcatct   660
aaagcgatct agggacagca gcccctgaa agactctgga gcgtgtagaa tccatttaca   720
aggacagact ctgtctaatc ctagtctttg tgaagacccg tttaccttag atgagaagaa   780
aacggaattt agaaattcag ggccatttgc taaaaatgta tctttgagtg gtaaggaaaa   840
agataataaa acatcattcc cattacaaat aaagcaaaat tgttcatgga acataacact   900
aactaatgat aatttgtgg agcatattgt cacaggatct cagagtaaaa atgtgacttg   960
tcaggccact agtgtggtta gtgaaaaggg cagaggagta gctgttgagg cagaaaaaat  1020
aaatgaagtg ctgatacaaa atggttcaaa aaaccagaat gtttatatga aacaccatga  1080
catccatcca attaaccagt acctgcgaaa gcaatctcat gaacagacaa gcactattac  1140
```

```
caaacagaaa aatataatag agagacaaat gccctgtgaa gcagtcagta gttacataaa    1200
tagagactca aatgttacta tcaattgtga aaggataaag cttaatacag aggaaaataa    1260
accaagtcat tttcaggcat taggagatga tataagcaga actgtgatac ccagtgaagt    1320
acttccatca gctggagcat ttagcaaatc agaaggccag catgagaatt ttctaaatat    1380
ttctagacta caagaaaaaa caggtactta tacaacaaac aaaactaaaa ataatcatgt    1440
ttctgactta ggtttagtcc tctgtgattt tgaagatagt ttctatctgg atactcagtc    1500
agagaaaata atacaacaga tggcaactga aaatgccaaa ctaggagcaa aggacaccaa    1560
cctggcagca gggataatgc agaagagctt agtccaacag aactcaatga actcttttca    1620
gaaggagtgt cacattcctt ttcctgctga acagcaccct ctaggagcga ctaagataga    1680
tcatttggac cttaagactg taggtactat gaaacaaagc agtgattcac atggggttga    1740
tatcctgact ccagaaagcc cgatttttcca ttctccaata ctattggagg aaaaatggtct  1800
ttttttaaaa aagaatgaag tttctgttac tgattcacaa ttaaatagtt ttcttcaagg    1860
ttatcaaaca caagaaactg tgaaaccagt tatacttctg attcctcaaa agagaactcc    1920
cactggtgta gaaggagaat gtcttccagt tcctgaaaca agtttgaata tgagtgatag    1980
tttactattt gatagcttca gtgatgacta tctagtaaaa gaacaattac ctgatatgca    2040
aatgaaagaa ccccttcctt cagaagtaac atcaaaccat tttagtgatt ctctgtgtct    2100
acaagaagac ctaattaaaa aatcaaatgt aaatgagaat caagataccc accagcagtt    2160
gacttgttcc aatgatgaat ctattatatt ttcagaaatg gattctgttc agatggttga    2220
agctttggac aatgtggata tatttcctgt ccaagagaag aatcatactg tagtatctcc    2280
tagagcatta gaactaagtg atccagtact tgatgagcac caccaaggtg atcaagatgg    2340
aggagatcaa gatgaaaggg ctgaaaaatc aaaattaact gggaccaggc aaaatcattc    2400
attcatatgg tcaggggcat catttgatct aagtccagga ctgcaaagga ttttagataa    2460
agtatccagt cctctagaaa atgaaaagct aaaatcaatg actataaact tttccagttt    2520
gaatagaaaa aatacagagt taaatgaaga acaagaagtt atttcaaact tggagacaaa    2580
acaagtgcag ggaatttcat tttcttctaa taatgaagta aaaagcaaga ttgagatgct    2640
agaaacaat gccaatcatg atgaaacctc atccctctta cctcgtaaag aaagtaatat    2700
agttgatgat aatggtctca ttcctcctac acccattcca acatctgctt ctaagctgac    2760
atttccaggg attcttgaaa cacctgtaaa cccttggaaa actaataatg ttttacaacc    2820
tggtgaaagt tatttatttg gctcaccttc agatattaaa aaccacgatt taagtccagg    2880
gagtagaaat gggttcaaag acaacagccc tattagtgac acaagctttt cacttcagtt    2940
atcacaggat ggattacagt taactccagc ctcaagcagt tcagaaagtt tgtccataat    3000
tgatgtagca agtgaccaaa atctttttcca aacattcatt aaggagtggc ggtgcaaaaa    3060
gcgatttttcc atctcactgg cttgtgaaaa gattagaagt ttgacatctt ctaaaactgc    3120
tactattggc agtaggttta agcaagctag ctcacctcag gaaattccta ttagagatga    3180
tggatttccc attaaaggtt gtgatgacac cttggtggtt ggactggcag tatgctgggg    3240
tggaagggat gcctattatt tttcactgca gaaggaacaa aagcattctg aaattagtgc    3300
cagtttggtt ccaccttctt tagatccaag cctgactttg aaagacagga tgtggtacct    3360
tcaatcttgc ttgcgaaagg aatctgataa agaatgttct gttgtcatct atgacttcat    3420
ccagagctat aaaattcttc ttctttcttg tggcatctcc ttggagcaaa gttatgaaga    3480
tcctaaggtg gcatgctggt tactagatcc agattctcag gagccgactc ttcatagcat    3540
agttaccagt ttctttcctc atgagcttcc actcctagaa gggatggaga ccagccaagg    3600
gattcaaagc ctggggctaa atgctggcag tgagcattct gggcgataca gagcatctgt    3660
ggagtccatt ctcatcttca actctatgaa tcagctcaac tctttgttgc agaaggaaaa    3720
ccttcaagat gtttttccgta aggtggaaat gccctctcag tactgcttgg ccttgctaga    3780
actaaatgga attggcttta gtactgcaga atgtgaaagt cagaaacata taatgcaagc    3840
caagctggat gcaattgaga cccaggccta tcaactagct ggccacagtt tttcttttcac    3900
cagttcagat gacatcgctg aggttttatt tttggaattg aagttgcccc caaatagaga    3960
gatgaaaaac caaggcagca agaaaactct gggttctacc agaagaggga ttgacaatgg    4020
acgcaagcta aggctgggaa gacagttcag cactagtaag gacgtttttaa ataaattaaa    4080
ggcattacat ccttttaccag gcttgatatt agaatggaga agaatcacta atgctattac    4140
caaagtggtc ttttcccctttc agcgggaaaa gtgtcttaat cctttttcttg gaatggaaag    4200
aatctatcct gtatcacagt cgcacactgc tacaggacga ataacctta cagaaccaaa     4260
tattcagaat gtgccaagag attttgaaat caaaatgcca acactagtag gagaaagccc    4320
accttctcaa gctgtaggca aaggcctact cccatgggc agaggaaaat ataagaaggg     4380
tttcagcgtg aatcctagat gccaggcaca gatggaggag agagctgcag acagaggaat    4440
gccattttca attagcatgc gacatgcctt gtgtgcctttc ccaggtggtt caatactggc    4500
tgctgactac tctcagcttg aactgaggat cttggctcat ttatcccatg atcgtcgtct    4560
```

                                    1648

```
cattcaagtg ttaaacactg gagctgatgt tttcaggagc attgcagcag agtggaagat    4620
gattgagcca gagtctgttg gggatgatct gaggcagcag gcaaaacaga tttgctatgg    4680
gatcatttat ggaatgggag ctaaatcttt gggagagcag atgggcatta aagaaaatga    4740
tgctgcatgc tatattgact ccttcaaatc cagatacaca gggattaatc aattcatgac    4800
agagacagtg aagaattgta aaagagacgg atttgttcag accattttgg gaaggcgtag    4860
atatttgcca ggaatcaaag acaacaaccc ttatcgtaaa gctcacgctg agcgtcaagc    4920
tatcaacaca atagtccaag gatcagcagc tgatattgtc aaaatagcca cagttaacat    4980
tcagaagcaa ttagagacct tccactcaac cttcaaatcc catggtcatc gagagggtat    5040
gctccaaagt gaccgaacag gattgtcacg aaagagaaaa ctgcaaggga tgttctagcc    5100
caatcatagg aggcttcttc atccttcaac tccatgatga actcctatat gaagtggcag    5160
aataagatgt tgttcaggta gctcaaattg tcaagaatga aatggaaagt gctgtaaaac    5220
tgtctgtgaa attgaaagtg aaagtgaaaa taggcgccag ctggggagag ctaaaggact    5280
ttgatgtgta actgggctgt tgatgaagtc ctcccaggga agcctgtgca gatgcagtca    5340
cctggaaaga acagagatta ccctttcacc tacctcagca aaacaaactt tcaagtcttg    5400
atagacttag cctagtaatt ttatagtgag agtttcaaac tatatatcag tgtctatagc    5460
atcaaaaact tctgggggcg tgggggaagt agaataccaa gtataatagt tacattcact    5520
ttcaaagagc atctatgaat ttgccttttg taacttactg tggctttaaa catattcaga    5580
acagatgctt gaaatatgca cttagcactt tggttccaca tctgtctggg taaaccatga    5640
agaaaatgaa gctgctgcct caatcgaccc agacagcagc cataggcaga taaagatttg    5700
gtttcaccct ggtggtggta ggcatcgtgt gtgacttttt ttcctctaat atcaatttta    5760
cagtacggaa atagtatttt aaaatagtat tggctaataa attatgaatt ctataaagta    5820
gtaagacttg gtatggttgg agtgtaggaa tgaatattca tgaaatgttt cttattgctt    5880
ttccttccct aattcataca atgaatgtat ttggaatact tacatattat aaaataaact    5940
atacctcttc aagaggtatc ctgttctgta agatcagatg tttttattgc aggtcaatat    6000
aatactgcca gagacagaaa ataccccctt atcagtccct tagtgcctct ttctgtttgt    6060
ggcatggtga gaaaacccat gctgaaaaga ttgtactttg tgatcccaat cagagggatg    6120
gagctaatct ttttgttgtt gaaataaaat gaatttatga gaaactttaa a              6171
```

```
        <400> 2826
ggaagcataa gaatgaagat gataaccgag ccagtgagag caagaaaccc aaaacggagg      60
acaagaattc agcaggccat aagccatcca gcaacagaga gtcatctaag cagagtgctg     120
caaaagaaaa ggatttgttg ccttctcccg ctgggcctgt tccttcaaaa gatccaaaaa     180
cagagcatgg ctctcggaag aggactatta gtcagtcttc ttccttaaag tcaagcagta     240
acagcaacaa ggagacgagt ggcagcagca aaaacagttc ctccacatca aagcagaaga     300
agaccgaagg gaagacttcc agtagctcca aggaggttaa ggtaaaggct ccaagtagct     360
cctctaactg tcctccatct gcaccaactc ttgattcttc taagcctcgg agaacaaagc     420
ttgtctttga tgacagaaat tattcagcag accattattt acaagaagca aaaaagctaa     480
agcacaatgc agatgcattg tctgataggt ttgagaaagc tgtatactat cttgatgctg     540
tggtatcttt cattgaatg                                                  559
```

<210> 2827
<211> 2285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (10)...(798)
<223> similar to gi488555 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2827
```
cgccttgtaa agaaacgagt tgagtgtagg cagtgtggga aggccggcag gaaccagtca   60
acgctgaaga cgcacatgcg aagccacacg ggggagaaac cgtacgaatg cgatcactgt  120
ggtaaggcct tcagcatagg ctccaacctg aatgtgcaca ggcggatcca caccgggggag  180
aagccctacg aatgccttgt ctgcggggaa gccttcagcg accactcatc cctcaggagc  240
cacgtgaaaa ctcaccgggg agagaagctc tttgtgtcat ccgtgtggaa aaggctccag  300
tgagcgcgcc tgctttagag acacaggatg attcagaccg gaaacagacc tcgtgggtgt  360
aagaggaagc ctctgtgagc tcgcacctta ctgggtgcaa aagaatccac ggaacttggg  420
agaagtccag ttcctgtaaa aactgggaag acgaggcgtt ctcatcccat aggaggtttg  480
tgagaactca cgccgggggt gaaaatgtac gtctgtagca tggagaagcc ttcagggtac  540
attcagctct taacaaacac aggaggactt aatggcagct tggcatttaa tgtcaaaatc  600
caagccgtgg catttaatgt caaaatgact tcagaccact tctagccttc tgggcccatg  660
agtaataatg agcacactag ggagcatctc tgtaaacaca gtggctgggg aaacccttcc  720
tagtctcact tgattcctca tgacggaaat cacactaaag agagaaatca gtgaagtaag  780
gaacgtggaa ggtcatgaat gggccgcaaa ccacggccag ctgcttgtct ttgtatggct  840
tgccagctaa caatagtggt tccatcttta aggaagaaga atgtttgatg gagaaaattt  900
gtggccaatg aagtctgaaa tacttcctgt catctgcccc tttccagaaa aacttggccg  960
acccttggtc tacagcacgg gttctcagtc gggcgacgat ttggctgtgt aggcgtcatt 1020
tggcaatgtc tagagacatt tttggtagtt agaatggggg gaagatactc ctgacttgta 1080
ataagaagac atcagagatg ctgctaagtc ggctccagca cacaggagcc ccccacaacg 1140
aagagttagt gcccccaaac gtcactgttg ctgaggttga aaataatcat gcagtcattc 1200
ctcaattact gcctccagca attcctccat ttttatgaat cttgtgagca cttacgctag 1260
gagaaatttc ttttacaaaa cttttaaaat acagttagtg ctgataattc ctatgtggaa 1320
atgattccag ccatggtccc ctcacttgag catgtgaata ttctcacgga gagaagcccc 1380
agcgagattt ccggtgaat acgggattgc acttactctt tcatcacgga aacagacccc 1440
cgagagaagc cccaacgaga ttttccggtg aatacgggac tgcacgtact ctatcatcat 1500
gaaaacagag ccccgttcat aaatttttca tctttatttt taaggttata ctcctctaaa 1560
taacccttaa gcctcatcaa gaaaggtttg tttatagtat ttttactata gcttcatcct 1620
tgataacgtc ctaatttcct tctggacaac ctccttgacc aatggcatat tgagatctat 1680
gtgacatgag gatatttctc agtaccactt tgttactggt acctgatgca cacggattgc 1740
gaccagagca tgatgcctcc atcaagtggt aatatgtttg cagcctgctg tccagccaag 1800
agtgacagat acttctagtg acttccccgg tatccactct catcttcttc caatatcaag 1860
agaatccagg ttctgtcaga ttagtaaggt gtgctaatct aaattttaaa aaatctctta 1920
caggtttttct tgcagctggt accatccatg tctcacagcc ctggccactg acagatcagc 1980
agatgtcacc acatgggctt ctgagaaagc tcttgaatgg ggatcgttct aaacatgaa 2040
ttcctccctg tatgttttgt tctttgcttt acttttcacc ttgcaaagag atccagtacc 2100
tagtattgga agatccacct taacgaccgt gcatatgaaa accacagtct aaggaagtga 2160
ctgcagaaag ctcacagcga ccctggcctc ccctgtggcc tctttgagtg tctgcagcag 2220
```

ccctggactt ccagacttct atcacatgag aaaaaataaa actgattatt ggtttaaaaa   2280
aaaaa   2285

        <400> 2828
tttttttttt ttctcattaa caaagcagtc aattcccttt attttaaaa ttttatgtac   60
acatatgaat gatctgtata atgtacattc aatatagaga agctttatat atgtgatagt   120
tgtagagaac atttcagaat gatactcatc ttttacatga catcttgaca tccattttta   180
aatttgtttt gcacaagctc cttgtcattc aatttggtaa aagccagtta tacatactaa   240
tgtgtactgt gagcctttca gaagggttaa tgattgaggg atgccagtga aggggtgcag   300
gggacaaaac ctaataggtc ttgggatggg tgggggggga gggatgggcc acggcaggac   360
tttggatgca gggagagggg gaaaatattc tttccggggg gggaaaaggt gacttagccc   420
aatttttgtt ggcctgtagc cacaaccctt acagtccatg cctagttcaa aaaaaaaatt   480
ccaaaactag gaagaaagtt ttgtcttttt gattcacagt tttgtaaaca gatataaagg   540
aacaaatgtg cttacatccc ccaagaaaaa aaaaattctt gtgtacccac ttatgttgat   600
ccacagagtg cttttcttata atgtgataca attaggatca ctgacttttt ttcctaaaaa   660
tatatttata gaaaaaggaa taacactgtc atgaaaccag gagaaaggca gtaagagttt   720
gcttcaacgt atcagctgga ggaatgtgga cttggcactg gcctttcagc gtttattgtc   780
tctcgtgaat atttcaagtc tgatagccaa ggtcgcctgc ctcatggtct acaggaggtg   840
gcaggttaga catgactgat gtagatgtac ctgcggtaag gtagccagca actccaggtc   900
ctgtgaggta tcctgctgtt tgtgactcag aaatgaacaa atcatgtttc tgatctttga   960
aggcactcca gactgaagaa cggcacagga tttcattcac ctgttctcca tactgcaaac   1020
ttcgagtcat tgccttgaga gctttaacaa tctgagcctt agtggctgct gggctgtcca   1080
ggttttcaag gccaatgcct tcgagtaatt ttaagaggta tggaaccaaa tctgctttca   1140
gggcttgtgc tactaattca ctctgctcct tctgaaacat tcgattaatt gcttcacagg   1200
ctagaccaac agtatctgct cgcttttttca ttccattcat cagtgggcca atggtctcta   1260
aagatgccat ggctcgaaca cacagctcat tttcagacaa ggcatggata acccgaatgg   1320
cactcttagg aatggcattg ttcctatgat tcattgcctg gataactttg ggaagatggc   1380
ccaatggcgg gacctgatct gccagctgag gttgtgcgct gaagagacac actgttgcca   1440
ttgtcaaggt ttccagagtt tctccatgag gattgttctt ctctaggagc tcagttaatt   1500
tttctaacag ggcaataaga aattctctag gctttcttag aacccaggct ggttgtgcaa   1560
taaagatcct caagaagact cctccaacag caagttcccc ctctgcttct ccaaacacca   1620
cagcaaaatc ttcaggcaac ttccagtttg cctcagggtt gtcctgctga ttttttaaagt   1680
gctctagcat catttcccta actgttgtgg acactttatc tctggaatta tcattccaaa   1740
ttaactcagg attttcatga gttccttcaa aaaatatgta cagcagcttc aggattgtct   1800
ctcatagcat cccatgaaaa cgcttggtag aaatttcatt aacggtaatt cgaacctttg   1860
gacctatcag tttatctgct gtcattttgg caaaaagttc tgctgtttgg gctcgaacct   1920
gtggatgtgt tgaattgcag aacatatcca gtaaatggaa tcaaagcacc ctttgccatt   1980
gcttctttga ttaattttttg tactcggatg tccaaagcat aaagagtttc ccagaaccaa   2040
gctgaccgac ttgatggcaa tgaatgtaga agagccaata aactggacaa aacccattga   2100

```
ttcagcaata ttgttgacac agtcttggtt agatgtcact atattcacaa cctcttaaag    2160
ccaacctgct gtacttgacc agctccatga aacgcggaga agagaaaata tcaacttaaa    2220
gtgcccaatg cattcactct cagaacctgg attgtatttt atgacatttc tcagagcctc    2280
caaagccatt tctactctcg gtaagcgatc tccatgttgc tctgactcca cttttgccgc    2340
gtgtgtgatg gccatgaatg tgtgcaagta ttgggcctgc gagcctatat aatccaagag    2400
acttgcagca aatgcttttg gatcctccag ttggaaagta ggaacttcat tatacaccct    2460
aacaaaaatc tcccctacaa taagttattt ggcatgatca ctgtagacaa attctgatcc    2520
ataagttttg tcacaatcac cttttttaat catgttttct tgttgggatt caagaaattc    2580
aagtaattct gctcttgtag aattgttcca tatcaaatat ggactttctg tgttgctgtt    2640
aagcatcttc aaaatctcag tcacactagc cacagcaagt tttctagcaa catagggtgt    2700
cagcatgcca gctaagcttt tccttatggt tggattttct ggagttgctt gttcttcagc    2760
caaataccct ccaaggcgac tcagagcatg gacactcagt ttggcaaggc tgtttgctac    2820
ctcctgctgg tttgtttctt cacttttctg aatgccactc tcttctagtg tgtagtcata    2880
attaaacaga aaaccaagga gataccacaa aattccagcc tgaaataggt gtgtctgtag    2940
ccagaaatcc acagcaaaag aactgacaca ttctacccca agagcagcta cgcggggaat    3000
actcttgcca aaatatagta cccgacagag atccttgatg atgctaggca tttccgtgat    3060
cttctctcgg cattcctcaa actgagcagc cacactgtag catttactta tgtatccaca    3120
cacctgtact gacatgtcac ttggtttact agaacgagtc aagacagcca cacagcgact    3180
aaatgcctct tgtaacacct ctagtccatt ctctcttctg agctcttcag cattgagggc    3240
tgaacagttg acagtatgga aagctagctc tgtagccgca ggcaacaatg gtgattcttt    3300
tgagaaaagg aggtcatctg aagtttccat tgttatagtc cgaataagca tggggtatcc    3360
tgcatattta taaggctgta aatcttcttt atgacggttg aagaggatgc tctgtgtttt    3420
tagaattaaa attatattct ctggatctgg cccatccact attttttgctg atttggtaca    3480
taaaaattca tatgctttat ttacttttc aaacatgtcc ctcccttctg gattcttatc     3540
agggtggtac ttttgtgcaa gtctgaagta agctttccta atcttgctct catcatgcgg    3600
tccctgtcct tgaggcagat taagcacttc ataagcatca tctattgaca tcataggtgg    3660
cttcttttct acttctttct tccaggcatc aagggtatct tttagaagct taaccgggtc    3720
tttaattggc caatctggaa accggagtgt atcacacagt tgtttgaggt aataaatatt    3780
acaaaatagt tcattttcga gttgtggata gttgattata ggaatggggc aatactgata    3840
aagtgctctt gtgttactct gaagacgagg tgtg                                3874
```

```
    <400> 2829
gcggcggcgg cggtggcagc aactgcaacc ccaacctggc ggccgcgagc aacggcagca     60
gcagcagcag tagcagcagc agcagcagca gcagtagtag cagcagcagc agtagcagca    120
gcagctgcgg ccccctcccc gggaaacccg tgtactcaac cccgtcccca gtggaaaaca    180
cccctcagaa taatgagtgc aaaatggtgg atctgagggg ggccaaagtg gcttccttca    240
cggtggaggg ctgcgagctg atctgcctgc cccaggcttt cgacctgttc ctgaagcact    300
tggtgggggg cttgcatacg gtctacacca agctgaagcg gctggagatc acgccggtgg    360
tgtgcaatgt ggaacaagtt cgcatcctga ggggactggg cgccatccag ccaggagtga    420
```

```
accgctgcaa actcatctcc aggaaggact tcgagaccct ctacaatgac tgcaccaacg      480
caagttctag acctggaagg cctcctaaga ggactcaaag tgtcacctcc ccagagaact      540
ctcacatcat gccgcattct gtccctggtc tcatgtctcc tgggataatt ccaccaacag      600
gtctgacagc agccgctgca gcagctgctg ctgctaccaa tgcagctatt gctgaagcaa      660
tgaaggtgaa aaaaatcaaa ttagaagcca tgagcaacta tcatgccagt aataaccaac      720
atggagcaga ctctgaaaac ggggacatga attcaagtgt cggactggaa cttcctttta      780
tgatgatgcc ccaccctcta attcctgtca gcctacctcc agcatctgtc accatggcaa      840
tgagccagat gaaccacctc agcaccattg caaatatggc agcagcagca caagttcaga      900
gtcccccatc cagagttgag acatcagtta ttaaggagcg tgttcctgat agcccctcac      960
ctgcccccctc tctggaggag gggagaaggc ctggcagtca cccatcatca catcgcagca     1020
gcagcgtgtc cagctcccct gctcggactg agagctcttc tgacagaatc ccggtccatc     1080
agaatgggtt gtccatgaac cagatgctga tgggcttatc accaaatgta cttcctgggc     1140
ccaaagaggg agatttggcc ggtcatgaca tgggacatga gtcaaaaagg atgcatattg     1200
aaaaagatga gacccccgctt tctacaccaa ccgcaagaga cagccttgac aaactctctc     1260
taactgggca tggacaacca ctgcctccag gttttccatc tccttttctg tttcctgatg     1320
gactgtcttc catcgagact cttctgacta acatacaggg gctgttgaaa gttgccatag     1380
ataatgccag agctcaagag aaacaggtcc aactggaaaa aactgagctg aagatggatt     1440
ttttaaggga aagagaatta agggaaacac ttgagaagca gttggctatg gaacaaaaga     1500
attggagcca tagttcaaaa gaggctaaag aaaggagaag aaggcaaaga gaaaattgcc     1560
aggaagcact tgagtttgag acggaaacgg ccgtgaacaa gcagaaacag acgctaagac     1620
aggcagcttc aacagatagt ctcagggtct taaatgactc tctgacccac agagatacga     1680
ggctgaacgc agtggcggct agaacagatg ctgaaaggac aatacaagat ggaagactgt     1740
atttgaaaac tactgtcatg tactgaatct ttcctgttga agaaatccat gttatagaaa     1800
agaactttgc agtcagacat tcgtcatggg aaagttcaga aaaaaataaa gtcctttaa      1860
gggaacttcc tgaattttgt gtattaatgt tctttaaaag tttaagtatt ctacaaaaaa     1920
aaaaaaaagt tttctccatt gattttcacc tgtggttcat accagagacc tgaggaatgt     1980
ttgtaaatgt acaagtatca aagttcttac agttaattac tggcaacttg ctgctggaca     2040
attgtataca gagttaaagg caggtctgaa taagacctag ctttgttttt ttctaatgga     2100
atgaaccatt ttcctcttct gaaaattctg tatctgagca catcaagaga ctcttgtagc     2160
agtggttacc cagacttacc agaattatgc cccccccaga aacccagcaa gaacacttgg     2220
aatgaacgaa tgaacttgta gggggggcata gaggattcct tgaaaaaaaa aaatgcaaga     2280
gtgattttct gttacattca atttcaaact ctctaattgt gggttttctc ctgaagaatt     2340
tttttttcaca tactttccaa aagaccaaca aatggatgtt gacaacaacc caatgaaata     2400
acattttgca tatctgaaaa gaagcattga atataagcca aaagctttca ctgaaggttt     2460
ttttttctta aaaataaaaa aaaatatata aatgtaacat gttttcattc caaactggta     2520
gtggtatata gaattaaaga taataatgtt gcttcttatt caaactgttg gtcatatgta     2580
cagtatataa acataaaaca cacaaggaag gtattatgta tgcagtagta tactagagtt     2640
taggaaaatg aaaattttag aaaatatgtt ttgtcaccct gttggtcaga aagatgtctt     2700
tctggtttta acgcatgcag gcatgtaaat atttgtctgg agtcacagta ttaatgaatg     2760
agatcttaag catctggtga catcagaact ctgtgtcagc cacttttatt tgtatattga     2820
accctagcta gtgccccaag ctgcactatt gggaatggat tgtggctgaa cagcaaatca     2880
aaacaccaga aatatttta tatgttaacg tcatattatg ttaatgttgc tgaaaacaaa     2940
acctaacaaa ccttgatgta ccagtccaat accatgtagc gctgagtgat aaagttaaaa     3000
tgtgctgtgc ttcccaccct tgtcagaggg agggtggctt gtgttatttt                3050
```

<400> 2830

```
ggctgtctat cagtggataa ggtggggggct gtctatcagg ggagaaggtg ggggctgtct     60
atcagtggag aaggtggggg ctgtctgtca gtggagatgg tggggggctgt ctgtcagtgg    120
agatggtggg ggctgtctgt cggtggagat ggtggggggct gtctgtcggt gtagatggtg    180
ggggctgtct gtcggtggag atggtggggg ctgtctgtcg gtggagatgg tggggggctgt    240
ctgtcggtgg agaaggtgga agcttgtact cagagcaggg gatatttaga cttgaagggg    300
ccagggagga aggtactggt tctactaagc cccatgttca ctgggcagcc actaagttag    360
ggaccgtgtg tgtaccgagt ggattccgac aaagaagctg tctcaggagc cccagccagc    420
tgcagagggg ggcccaagct ccaaggctgg gtgtcaggtt tgccaggtgc tggctccgct    480
aggggccgca ggctgcgctg ggcgggactg ggctgggctg gtacctgtgc ccggtgtcag    540
gccagctgta gttgcagcgg tcagctgccg ctctctggcc ccatgcgaac tgctgtgcca    600
ggtgcaccct gggggaccag gctgcctggg cttcctggaa ctggtgaagc tgccgccact    660
tcctctatgc tgtctccagc aggcaattct gggtaaacga tcttcatttg cctataaagc    720
tgcacagctc acaggccttg gaccgtttct gccccagccc cagcattggc cctttggaca    780
gactctgaaa ccgtgcgcag aacgcaccct gtcattacaa atgactcctg gaggcagtcc    840
ccggggggcct ggcaggagca cctgtgtttc tgtggggtct gaaaatgaca gaccaatcgc    900
ttgaacccgg gaggcggaag ttgcagtgag ccgagatcga gacattgccc tccagcctgg    960
gcaacaagag caaaactcca tctcaaaaaa aagaaaaaag tgccgagtgg agtcgtcacg   1020
cccgtaatcc tagcactttg ggaggcagag gtgggcggat cacctgaggt cgggagttcg   1080
agaccagcct gaccaacatg gagaaacccc atctctacta aaaacacaaa aattagccgg   1140
gcgtgtgcat gcctgtaatc ccacctactc aggaggctga gggaggagaa tcgcttgaaa   1200
ccgggagccg gaggttgcag tgagccgaga tcgtgccatt gcactccagc ctgggcaaca   1260
agagcaaaaa ctccatctca aaaaaaaaa ggagagagag aaaccgggac cgcaag         1316
```

<210> 2831
<211> 1296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (89)...(1232)

<400> 2831

```
aattcccaga caacgacagc tgatcaacta cttgaatttt ttaaacaagt tggagaagtg     60
aagtttgtgc ggatggcagg tgatgagact cagccaactc ggtttgcttt tgtggaattt    120
gcagaccaaa attctgtacc aagggccctt gcttttaatg gagttatgtt tggagacagg    180
ccactgaaaa taaatcactc caacaatgca atagtaaaac cccctgagat gacacctcag    240
gctgcagcta aggagttaga agaagtaatg aagcgagtac gagaagctca gtcatttatc    300
tcagcagcta ttgaaccagg gtggctgcac tcaacgagtt tatgcaatga ctttcttgga    360
tgtttctgaa ggaggaggat gtacagagag taggccccctt gcactatatg tggtacattc    420
cacttgtgcc tgattattaa ctgggatctt taattgttct gagcttacac tgcaaagtga    480
```

```
ttttttcctc ccagagtctg gaaagagcaa tgaaagaaaa ggcggtcgat ctcgttccca    540
tactcgctca aaatccaggt ctagctcaaa atcccattct agaaggaaaa gatcacaatc    600
aaaacacagg agtagatccc ataatagatc acgttcaaga cagaaagaca gacgtagatc    660
taagagccca cataaaaaac gctctaaatc aagggagaga cggaagtcaa ggagtcgttc    720
gcattcacgg gacaagagaa aagacactcg agaaaagatc aaggaaaagg aaagagtgaa    780
agagaaagac agggaaaagg agagagagag ggaaaaggaa cgtgaaaaag aaaaggaacg    840
gggtaaaaac aaagaccggg acaaggaacg ggaaaaggac cgggaaaaag acaaggaaaa    900
ggacagagag agagaacggg aaaaagagca tgagaaggat cgagacaaag agaaggaaaa    960
ggaacaggac aaagaaaagg aacgagaaaa agacagatcc aaagagatag atgaaaaaag   1020
aaagaaggat aaaaaatcca gaacaccacc caggagttac aatgcatcgc gaagatctcg   1080
tagttccagc agggaaaggc gtaggaggag gagcaggagt tcttccagat cgccaagaac   1140
atcaaaaacc ataaaaagga aatcttctag atctccgtcc cccaggagca gaaataagaa   1200
ggataaaaag agagaaaaag aaagggacca catcagtgaa agaagagaga gagaacgttc   1260
aacgtctatg agaaagagtt ctaatgatag agatgg                             1296
```

<210> 2832
<211> 1205
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (393)...(6)
<223> similar to gi3859492 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2832
```
agctactgca gagtaagaac atgtcctcat ctcgagcagg ctaaacatgg ccacatcagc     60
gtggtctacc cgggaaatgt tatataagac atcatgatcg ggtgcctgtg atgaagggta    120
cagactacaa ggcagtagat aagcttactt gtcaaggaaa cagccagcgg tatgggccag    180
aaccccggtg tgtggagcgc cactgttcca cctttcagat gcccaaagat gtcatcatat    240
cccccccacaa ctgtggcaag cagcctgcca aatttgggac gatctgctat gtaagttgcc    300
gccaagggtt catttttatct ggagtcaaag aaatgctgag atgtaccact tctggaaaat    360
ggaatgtcgg agttcaggca gctgtgtgta aagacgtgga ggctcctcaa atcaactgtc    420
ctaaggacat agaggctaag actctggaac agcaagattc tgccaatgtt acctgggcag    480
attccaacag ctaaagacaa ctctggtgaa aaggtgtcag tccacgttca tccagctttc    540
accccacctt accttttccc aattggagat gttgctatcg tatacacggc aactgaccta    600
tccggcaacc aggccagctg cattttccat atcaaggtta ttgatgcaga accacctgtc    660
atagactggt gcagatctcc acctcccgtc caggtctcgg agaaggtaca tgccgcaagc    720
tgggatgagc ctcagttctc agacaactca ggggctgaat tggtcattac cagaagtcat    780
acacaaggag accttttccc tcaaggggag actatagtac agtatacagc cactgacccc    840
tcaggcaata acaggacatg tgatatccat attgtcataa aaggttctcc ctgtgaaatt    900
ccattcacac ctgtaaatgg ggattttata tgcactccag ataatactgg agtcaactgt    960
acattaactt gcttggaggg ctatgatttc acagaagggt ctactgacaa gtattattgt   1020
gcttatgaag atggcgtctg gaaaccaaca tataccactg aatggccaga ctgtgccaaa   1080
aaacgttttg caaccacgg gttcaagtcc tttgagatgt ctacaaagc agctcgttgt    1140
gatgacacag atctgatgaa gaagttttct gaagcatttg agacgaccct ggggaaaaat   1200
ggtcc                                                               1205
```

1655

<210> 2833
<211> 4650
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4651)...(1400)
<223> similar to gi2058326 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2833
```
tttttttttt ttacagataa atttgttttt aataaaggag ttaattttct ttcaatccta      60
tataaaacaa tagcaattaa aaacttcatt tctgaaagta aaatatttac atatgaacaa     120
gtaaactgtg caaaatttac atgaaaaaat gggaaaggac caggggtttc cctaaaaggc     180
caaaataaaa aggtgtaacc agttcctcag gtgttgataa aaaatactga tccagcgttc     240
cagttcacac gcggctcgga tttaaggtct aatgtgagaa ttcacacgga gaaagccaga     300
gtatttacag tcataaaagt actatcaata gacaatttca tacaataacc tctgaaaata     360
gaaagaacca attagtatat ttgtaataaa aaaataggta caaagaaggg gctttgctct     420
ggacgtctgt aaagtcggcc caaggcttgc atacagtctc ttagcaaaat aattatagtt     480
tacatagcca tttctatgtc atgtgccaaa agttatgtac aattactgac aaaatacacc     540
aaccattttt caacacttga ttcacaccga gaaacagtct tttgatgatt cttctcaact     600
ttgattttat ttaatctagg ttttcacttt tagctaaaaa acacagtgca agtaaaatat     660
atttatgctg aaaaggtttt catctctttt aactttacag ctttacaaac tatagcaaat     720
aaaatgcatt tgtacagatg ctgaccacac attcagaagg agccaccttt gctgggctcg     780
gcctctacca agcagaaatg cgattacact ctgaggtggg ggtgcaacga tgaattgtgt     840
attcctccag gattctcagc ggagtggagg ggaagggagg ggaggggagg gcaggggca     900
gagaggagag cggggtggga ggggaaggga aggaagataa atagtcctaa aaaatcagtt     960
tgctttgccc aactgactat tacaaaaata aaataaacga aatgaggtca tcggctgtag    1020
acatacacct acatagtaag ttaggtagaa ctaaaccaaa atgcacaaat aatgcagaaa    1080
ctgctatgag ttgacaagag ggcagctaat tatttgctaa cgattccatc agtctttata    1140
tatggcttgt ttggcaggaa ggccactcaa tcaagatgag ttaagattta attgtccttt    1200
aagagtatcc acaggccttt gtgttctctc tgttacagaa acgtgttttc tttcacactg    1260
aagagctgat ttagaaacag gaatataaaa ctgttccatt gtaaagaggt ggctgttttt    1320
taaacaatat cccatttgct cgttacaaaa aggcgtaatc tgcaaatata taaaaagtcc    1380
ccaggcgtcc tcctgtgtca cttaaggaat gctttgtaga gcagcagtga atggcttgtc    1440
tcacgttcat tttctaaaca aaatatgagg tccctgaggt tgacccgcgt gattctttgt    1500
cgcgtgaact gtctgggggt tccgacaccc gagctgcctg ggaccactga gccggggccc    1560
gaccectctg ctcctgagcc cggcccccgga cagtccactt tcctctttttt cctgggcccg    1620
atcgctgcta gtgctgtgag gttggcgtcc cgctgtctca tttgtgccag ttcctgttgc    1680
tgcatctcct ttgccttctg tttcagcctt aactgttctg gatcttcttg tcttgaccga    1740
gactttgctg ccctcatcag gatctcccgc tcctgctcat ccttcctctg cttttcgatt    1800
tgatcaagct gttcaaaaaa cttgagctgt gcccggacgt cactcgcctg ctcatatctg    1860
tcgtcatcct tgtaagaaaa gttcttctgc tgagctgttt ctgatatttt ctctacaaga    1920
ttctgtagcc tttgttgcgt ggcatgtgat acataactta ctacatctgg atgtaattcc    1980
gttataccat gttttttttac ctatttttaa tattcttctc tgcaaaggcg cttggaggag    2040
gaaggtttca tctttacagg accgcgttag cgtgcccacc aattcagagt tcgtggctaa    2100
tattcttgca cttttcttctg acaagtttac tccagccatc gatgcaacat cattaatgtc    2160
atcatcgtcc cgaaacgaac ctcccccagg ctccttgagt ttatttttct gtgcagcagc    2220
tgcttgtgcc gagacagcag aaagggcttt ggttccaggt aacacggcgg gtttccaccac    2280
agggactggc tgcagtgggt tcagctggat ctgctgaggc gtggtgagca tgatccggtt    2340
```

```
gtgaggctgc cgcagggcga ccatgggtgt ctgcgtcaac gtcacctgcg ggggccggat    2400
cagggctcct ggcttcggag gctgctggat gaccagcggt gtgggttgcc cctgcttgcc    2460
gacgccgacc tgcgtgggct gcgtgaggct gagcacaggg ggctggaggg cactggtcac    2520
ggtggccgcc gtcttcccgg ccgtgcgctg gaccgagcta ctcagcacca cggccgtgag    2580
cgcagtggtg gcctgcgagg tgggcggtgg cggctgctgc tggctctgct ggatgaaggc    2640
cgcggagtcg ggggtcagct gtctcaaggc gggtaagctc ctcttcagga aaggcacaag    2700
gtaaggttga ggtgaagaat taagttctcg gtataacctg cttgtgaaat cttctgcttc    2760
tattttttcca tccagtaaat tctgcacgag ctctttcaca ttagctgctg tctctgtaga    2820
ctgcttgcca gatgaagcca gttttattaa cgtagatcgg aaatttttac atttcttcac    2880
gttttccata gtttccctgg caactgagga agtggtggtc gccccctggta ccgtgcgctg    2940
aggagtcccc gtctgaacag ccggcgccgt tccaagttaa gccgtcttgg cagcgcaacc    3000
cagaacgagc tgaggctgag aaccgggcga gcgcttcagt gttgcgctgg gctgcaccgt    3060
tgtctgggcc tgagacactc gcgatattat gttagttggg gtgcaccgcc gtgtaatgat    3120
aggtgatcca cgtgtctgta tcgtggagat ctggacggga ggggcacttg tggggggtggc    3180
agggcgaggc gccatggtgg tctgaggctg ggcatgggcc tgcgcctgcg tctgggccaa    3240
ggcctgctga ggaatcatta acaactgccc attctcactt cggacgagga ccattcctgg    3300
gggcagctgg aagttctgga tgttggtcgg gttctgaggc ggctgcggca agcggggggc    3360
cagcacggtg ggcgtcaggg tggcccgaat cccgctggtg gtggccgtgg gcgtccggga    3420
caggctctgg gtcactgcgc cggccgcgcc tttgggcagc ccggtggggg tcccgggggc    3480
gggcggcggg acggcggccg ggctgggcag cgccccttgc atagttggcc cgatgaccat    3540
gctggccgcc gtgctggccg ggccgctggc cgccagggtc tgcgccgccg ggggcgccgc    3600
ctgcaccacc ctcttgggcg actcggcctt gacccccggc gccggcgccg cagccgccgc    3660
gccgggcccg ggttggccgc tgacccccgc ggggcccccg gcggccgggg cggggggcggg    3720
ggctgccccg gcgctgcccc cgttctgggc ggcggcgggg ggcggcacgg cgagcgcggc    3780
ggtcgggggt ccggcggggt ggccgggcgg ccgggccaga gtggcgggcg cgggggggtgg    3840
cggggggcggg gcggcggcgg gggcggcggg cgcggggggcg gcggggggcg agggcgcggc    3900
gggcgcgggg ggcgcggcgg cgcccacgaa ggggggcgtc tggatgacag tgccgggggc    3960
ggcgggcttg ggcagcggca gcagcgcggc gggcccgttg ttgaccaggc tgacagcagg    4020
tgcggcggcg tggtgcgagt tcagcagcgc ggcgctccca ttcaaagttt gcgcggcgcc    4080
ggggccggcg ggcttgccag ggccggggcc ggggccgggg ccgggccggg ggccggggcc    4140
ggcgcgggcg gccagcgcgg cggggccggc gggcttggcg gggccggcgg gggcgggctc    4200
gggccccgcg gcgacggcgg cggcggcggg caccggggcg caggcccccg cgctgccctc    4260
gggcggcggc ctcagcttcg cggcgggcgg cgcgggccct gcggggacaa gggggcggcg    4320
cggtgagggg gggcccgggc gctgcggccc cccgcccccc ggccgcgctc tacctgcggg    4380
gggcggctcc ggcgccgctc cgggcgcgcc ctcggcgggg cggccggcc ctgcgcccgc    4440
ggctccggcc gggctgccgc tcacaacatg gttcccgagc gcgccggcgg ccgcggcccg    4500
cacctcgggc gtgcgcggcg cgaggtggtg gtggtgggcc gcgctggccg ccagctgcga    4560
ctccagcgag cccaccaggt cgctcaccac tttctcgtcc acctcgctgt tgaagaagac    4620
ctcgtccagc agatccgagc ccgccgccat                                     4650
```

<210> 2834
<211> 1700
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1391)...(859)
<223> similar to gi4456991 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

1657

<400> 2834
```
ttttttgaaa ttttaaagct gggtgtccag ggcagacatc acatgttggc aggttctgtg      60
atgcccctg  agccataaaa ccagcaaatt ttttattagt gattttcaaa aggggaggga     120
gtgtacaaat agggtatggg tcacagagat cccatgcttc acaaggtaat aagatatcac     180
aaggtaaatg gaggcagggc gagatcacag gaccacagga ctggggtgaa attaaaattg     240
ctaatgaagt ttcgggcatg cattgtcatt gataacatct tatcaggaga cagggtttga     300
gagcagacaa ctggtctgac caaaatttat taggcaggaa tttcctcgtc ctaataagcc     360
tgggagcact ctgggaaact ggggcttatt tcatccccac agctgcgacc ataaaagaca     420
gctgccctga agcagccatt tcagaggcct accctcaggg atgcattctc tttctcaggg     480
atgttccttg ctgagaaaaa gaattcagtg atatttctcc catttgcttt tgaaagaaga     540
gaaatatggc tctgttccgt ccagctcacc ggcagtcaga gtttaaggtt atctctcttg     600
ttccgtgaac atcactgtta tcctgttctt ttttcaaggt gcccagattt catattgttc     660
aaacacaaat gctctacaat ttgtgcagtt aacacaatca tcacagggtc ctgaggcgac     720
atacatcctc ctcagtttac gaagatgacg ggattaagag attaaagtaa agacaggcat     780
aggaaatcac aagggtattg attggggaac taataaatgt ccatgaaatc ttcacaattt     840
atgttcttct gccatggctt cagctggtcc ctccggggtc cctgacttcc cgcaacatct     900
ctccctttct ttttataata aatgtgccat ggcaatgaag gcttgttcgt tctcttgatt     960
ttgacgcagg attctttgac tagtctggca aactaaaaac aagccgatta aacagagaaa    1020
cataattcca aaatttacta cagtggagcc cccaatagac ttaatccaag tcctgggggtt    1080
taatccagaa agattttctg ccacctgatc taacgcctca gctccaggca caatggataa   · 1140
gtgagcttga gaggcttcaa aaatttgtct ctttaattta gttatgtcca gtgataaatt ·   1200
atcttcccta cccagaagat gtcttttgac catttcccat gaatgatcag tctcgttata    1260
ggaatacggg gtgatgcaga aatctcaagt gttccaatcg tactgcattt gcatgtgatg    1320
ctcgagactc actacctgat ctccaagcca aataacagac tgtcttaaat cattaatttg    1380
attagcttgt gtccatccct taagggcact gagtttccct· gggctgcggg taggtccaga    1440
gattctgtcc aggagccagg gcctggagtt ggaaacctta ggaataatcc tggtgctctg    1500
ttttactgtg gctgagctgg cacccaagct acaagacagc atccttccca ttcttccctc    1560
ccctttttcc agggcagatg attctttccg tgttccacca ctaccacagg cccacaagga  · 1620
gttctgtcag ggtaccacaa atatttactt aaggcccaag ggctcttcag tcagcttgtg    1680
ttgaatactg ccaggcctgg                                               1700
```

<210> 2835
<211> 2265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2266)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2265)...(312)
<223> similar to gi3135968 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2835
```
ttttttttca tgatatacaa atattatttt attagatgcc aaaacttta ttaacatcac      60
```

```
tttatttcta tttgcagctt ttaattattt aacatttata acattttact gtgtctcctc    120
tgggtgacta aatatcttca catgcccact agctaaaaag aatttctaag tagaactcaa    180
ctgaaactgc aagctactgc tctaagaaat gcatacttat gtttatttgc tctcctatat    240
aatcctgttt acaaatagca taactgcaaa gatttatatg taatttctaa atccttcagg    300
ttgctctacc attcatcttc ttatgtctgg caagataaac actcttagtg aacactttgc    360
tgcatctctt aaatgagatt tgtctccagt ttatttccta tagaataagg gatgcacttg    420
gaactgaaaa attccttcaa tttctaaagt ttccacattc atacaacttt tctcctgtag    480
gagtttgcag gagattccta ttgcctatag tctttcccac atttgctaca tgtacacaga    540
ttttttcctag tgtgagtata cttaggtcaa ttaagggatt aatactgaca aaggctttcc    600
cacatttatt gacttcatat gatttctcta cagtataaac tctaataaaa aaatctgcat    660
cattgctaaa agtctcccat gttcaccacc ttcatacaac ttttccccag tatacatttt    720
tctgatgtta aataagggag gatctatgaa tgaagtttac cgtgataaac actgcttctc    780
ttctgtaaga tttctcacat gtatagggat tcatatgatc taaaggcttt tccacactta    840
ccacactatt gggtttctct ccattatgta ctctttgatg ggcagtaaga ttcgagcctt    900
tgctaaaagc tttcccacac tcactacatt tatatggctt ttctccagta tgaattctct    960
gatgtacagt aaggtttgaa ctacagctga aggtcttccc acatttaata cattcgtaag   1020
gtttctctcc agtatgaata ctgtgatgtt gaagcaggga cgacctatga ctaaaggctt   1080
tcccacatat actgcattcg tagggtttca atctaatgtg atttctcaaa tgcatattca   1140
gtgattcaag ctggttgaag gatttcctgc atttctaaac ttcaaacggt ttttcttcag   1200
tatgaatact ctgatgttga acaagaaatg agaagctact aaagcccttg agacatttgt   1260
tgcattcata ttttttcttc atactgtgaa ttctttgatg ttgagtaagg tgtgagctac   1320
agcagaaagc tttcccacat tctctacatt cataaggctt ctctccagta tggcttttct   1380
gatggtgaat gagagacgaa ctatgaatga aggcctttcc acatatacga cactcatagc   1440
gtttttcttg cgtatgaatt cttagatgct gaatgagaag ggacacacga ctaaaagact   1500
ttccacagtt catacattca tacggtttct ctcccgtgtg agtgctctga tggttagtaa   1560
gtgatgagcc atggctaaag gccttcccac attcaatgca tttgtaaggt ttctctccac   1620
tatggcttat ctgatgtcgt gtaagggatg aaccatggct aaaagtcttc ccacattcac   1680
gacattcata gggcttctct cctgtatgaa ttctccagtg gcgactgagg attgactgtt   1740
tgccaaaggc tttcccacat tcactgcatg tatagatttt ctctctatta caagtctggg   1800
gaagggtaag agatttgctc tggttgaagg ctgccccact tttattagaa tttaaaagtt   1860
tctttccacc atttattctc tcactttta taactgactt ttttgataaa ttcttcttta   1920
atatatcata tttgtgtgaa ttcccttcag cagaattgtt ttgtggttca gaaagagtag   1980
actttgaatg aaaggtgctt ctaaatgtgt cgcattctgt atattccaaa ttcttattag   2040
aatttgaaaa ttcataactt tgttttacaa cttttttccat tgttactggg ttggggtgaa   2100
tcttcatcat aaatatcctt ctttgttgat aattccttgt tttcccatct tgattcccaa   2160
tcttttgaca gttttttctc catcatccag ggctctttc catcctcnaa taacatgatc   2220
acatatggct tagttacggg aaagacctac aggagaccag gttct              2265
```

```
tttttttttt ttaaacaaaa ctttattggt aatagttttc aaatatgttt acaacagcac      60
actgttcaag aggaagtctc gtccttcgca gcacacaggt tgaatcgccc ccgcacccac     120
ccggggcccc accccaggcc tgagaactcc tcctgggatg gggagaagtt atgagagggg     180
gaaatacggg gatgaatggg gtggctcccc agcggctccc cactttтcta ttacgagaga     240
aaaaagcaca aatgagaaag tgggggagag gtgatggaca gctgacagct aagctggagg     300
aggggcgccc aggatggggg aggcggaagc tggtgggtga gtaaaacagg cagcccctcc     360
ccagcagctc tagccttgaa ccccgggccg tggcttgggg ggacttggcc tcttctgttc     420
cctttttgcag ggatgccctc cccactcagc tgagggaagg ctggacgtta aaatctagcg     480
gagaataaaa ttaaggagtt ggggggaaac gctgctggga ggaaagactt gggcttgggg     540
ctccccctct gtctttttgg gggatgactc ctctttggca gggagagggg cagctgcttt     600
gtctggcttt caaagcccaa gggtgaagac aggtctgttg gggaaaaaga gagcggaggc     660
ttcctaaagg ggcctagacc ctcgcaggat tggcagagag gattccccgg ggaggggccc     720
aggggagatt agcagcgggg aggttcaaac cccagcgcct cccttтccaa agtcagtctg     780
cttctctttta aaatggattt gaggaatggg gggacatggg aggggtggga gtagaggaag     840
gagggaggga ggcactggtg gaacttaaat aagattttaa attgttgttt ttttaaaaaa     900
attctagcaa gcaacccact gaacatgtca ctaaaaatct ctccttccca ggcaggatta     960
ctccgaaagg aaggttggcg cttcgttcat ttgcccttag caagtggggc ctgtggttgg    1020
gtgggatggg ggtgtgggtg ggggctggag ttaagcgtga gcccctcttt ccataccctg    1080
tccctggata caccagcaag acctggtctg actggagttg agaaactcgt ttaaaacagg    1140
cagaagtggg ctgggagggc tgaggggctg gggggctgtg gggaaagaga aagggaaaag    1200
tgggagaggg ggcaggaggg tgaaggggat gagggggagc agctggtgtt tctgtccctc    1260
tgattatctg ggcttcctgc tcccctacc cctggagggt ggggtggggg tgaaattaga    1320
tgcaaggaac tctgggccc tctggctgtt caatccaacc ctcccacccc cccgaccaaa    1380
aaaaagaaaa aagaaaaaag aaaacccatg ggggcacagg catgcccta aaactcagaa    1440
aactccttgc ccaaacttct cattgatgga aaacccggat ttcttcttcc tcatagtcgt    1500
caaagttaac tcgtatcccc agggccttta aactttggta tgaagggagc ttccaccttc    1560
ctctggtaga tggcaatcca gtcagttgtg gcaaaccact tgtggttctt gatatcgttg    1620
acccccattct tgaggttccc aaagcgcttg gtgagatcta cctgcaggag gttccgcagc    1680
aggtccttca agtcagagct gaagtgggaa gggaagcgca ccttcccaga gacgatcttc    1740
tcatagatct ggatgggctg gtctgcgaag aagggcgggt agccagcggc catttcatag    1800
ataagaaccc ccagggccca ccagtccacg gccttgttgt agcctttgct caggataatc    1860
tcagggccca ggtactcagg ggtgccgcac aaggtccaag tgcggccctt cacgcgcttg    1920
gcgaaaccga agtctgtcac ctgaatgtag ccctgctggt caatgagcag attctccggc    1980
ttcaggtccc tgtagatgag atccagcgag tgcagatact caaaggtcag gacgatctgg    2040
gccgcgtaga aacgggcatg gggctcactg aaccttccga tccgccgtag gtgtgagaac    2100
atctccccgc cgggcacgta ctccatgacc atgtataagt ttgagttgtc cttgaaggag    2160
aactcgagtt tgacgaggaa cggaaagttg acagcttgca ggatgcgctt ttcattcagg    2220
gtgtgttcga tctgtttcag tttccccacc ttctgttagt cgaggatctt catggcatag    2280
tggttcccgg tctccttgtg tttcaccagc atcacccgcc cgaaggagcc cgtgccgagg    2340
gtcttgattc gttcaaactg atccaagtgg ctgtgttct gagcgggact ttcccatttt    2400
ttaagaaaat cttctttggc tttggctaag aattctttca cgctctcctg ctcgctgccc    2460
ttcttggcgg cggcggcgtt gcccat                                        2486
```

<210> 2837
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (712)...(668)
<223> similar to gi2723316 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

1660

<400> 2837
```
ttttttaagat ttctcagcag tatgatttat tttatgttta gaaaagtttg aaggtgttgt      60
caaaatcatt gtcacatctt tcaggtttgt aaagtttcca gtattaattt tcttatgttt     120
agtaaagttt gagatttagt tacaagcatt gccacattct tcacatttgc agggtttctc     180
tcaaatatga attgtcttat gtggagtaag ggttgatgat aggttagctt tgccacattc     240
ttcacatttg tagggtttct ctccagtacg attttttctta tgtgcagtaa ggtttgagga     300
tgagttaaaa gctttgccac attcttcaca tttgtagagt ttctctccag tatgaattat     360
attatgtata gcaaggtgtg agaactgttt aaaagcttta ccacattctt tacatttgta     420
cagtttctct ccagtatgaa ttaccttatg tttagtaagc gttgaggaca ggttaaaggc     480
cttgtcacat tcttcacatt tgtaggattt ctctcctgta tgaattttt tatggtctgt     540
aaggtttgaa gatcggttaa aaactttgcc acattcttca catttgtagc atttctctcc     600
agtgtgaatt atcttatatg tagaaagggt tgaagactgg ctaaaagctt tagcacattt     660
ttcacatttg gtagggttct ctcctgtatg aatttttctta tgtgtagtaa gttt          714
```

<210> 2838
<211> 354
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(355)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (355)...(134)
<223> similar to gi5069468 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2838
```
agtaaatata gctcttcata attttgttct gaagtttaaa aatatatata tttttgaatg      60
gataacttc tttttctaaa tgcttacagt agagcccacg atggttgtta aaagcccccca     120
ggttcagcct tctttaattg tgtggtcagc ctgccatcaa cccaggggct ccctctgctc     180
ggcactgtnc tgctctagtg aataccttttt ttattctggt gtgacctaat atggccggta     240
aggcggtcac ttctcataga gcgttgtgaa cattctggac aaacaaattt cttctcaccc     300
tgtatgcgct cttctgtgcc tctgtaattc atcacttcga gtaaatcttt tacc           354
```

<210> 2839
<211> 378
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(294)
<223> similar to gi3132823 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2839
aagaaagcat aaaaaaggga cacttggaag aaattcaaaa gaaaagaacc tgctgagcag   60
tcaaattcca gaaggccatt actggtgcat ctcttgctaa tatagtggcc aagaggaatg   120
agaaacatga agttaaaaag gctcaatgaa aacaagctag cagggctgct aaggaagcaa   180
aaaaggctaa gctagcatct gaaaagaccg caatggctgc tgctaaggca gcatctacac   240
aaaagatggt gaagcctgtg aaagtgtcag ctccccgagg tggttcaaaa caccaagttg   300
gcagatcaga ttcttaaaga ttggactgta gaaaaatata aattatatta cctaacattt   360
gaataacgta ttttagtt   378

<210> 2840
<211> 308
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (10)...(277)
<223> similar to gi2072966 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2840
cacctattca cctataaagg aaattacatc agattaacag ctgacttctc agcagaaacc   60
ttacagacca gaagaaaatg agatgatata ttgaatgtgc taaagaaaaa cattgccagc   120
aagattaatc ttcataaagg aagacaaaat aaattctttc ccaaacaagc aaatattgag   180
gggagtcatt gctattagac tggttttaca agaaatgctc aagggagtcc taaacttgga   240
agcaaaagga caacattaac catcataaaa acacatgaca gtataaaact cattggcaaa   300
gtaatcac   308

<210> 2841
<211> 1277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1260)...(736)

1662

<400> 2841

```
tttttttcaaa ccatcacttg tttataaacg cgtttccgat ctgccatcgt aattccattt     60
tagtcatgca tcccgagatc attcaaacca cacccaagag agactggacg acagcactca    120
ctagggtgct atttataacc atacaatgca ggaggctagc tgcgtgtcga tctggggggac   180
agtttaataa actgccacac aacacagctg agctccacac agccacatga ggatgggggac   240
agccattcct tgggtttctg aataacgtat caagtgagca gtgaatttca atcaagcttg    300
tacatcagga ccgtcttgcc aaaacaacag ttgcttttgg ctgctggaag ctgtagcttt    360
tcaaaacgtt cacacatttc aatgtatcgt cgatgttttt aaatagactt acagggaggg    420
tggcacacag caaaggcccg caggccctcg tagcaccgca gtccaggtag gatgctgggc    480
ggcgggggt ggtggagggg gttctattta cagtgtctgg gctttgactc cactaactgt      540
tggttttgtt ttctttctta aaccttttcc ttcaagtctg gaagcctgtg gagggcctgt      600
caccttaaag gcaaggattc cttgtttgca ccaggcagac aaatgtcaaa ccacgacccc     660
aggggctgca ctaggcgtcg ggcccagaag cccccggcca tccagccccg actctttcat     720
gcctctgccc ctgatgaggg gacccagggt accctcaagg ggacacagaa gggaggctgc      780
atcctagtcc agtgtcaaag tgaggggggc gctgcaggag cctggacagg accacctagc     840
ccagccaggg acaggagggt gagaccacct ggaacaaagg cacagaggct ggagagaagg      900
cggcatgttc ccagactgca tgggctcggg gtagggggat gcgaggtcag aactggcata     960
gtggccagga tctcgggctc tactccatgg gcaggggga agcccctggg gctgcatggg     1020
gccatggggg aggcgggcgc aggagacacc ggctgctgtg ccaaaggccc cagtccagct     1080
gctcctctgc cagcagaagg cagaggacaa ggggctggcc caggtggcct cgtgggacgg    1140
ggggaaagga gggaccagca aacccttctt gggatggctg aggacacagg ggactccagc    1200
agaaagggag gcccctgggt gtgcaagacg ggacgctgac cagcctgggc cctcaccggc    1260
cactaccccc accacca                                                   1277
```

<210> 2842
<211> 1322
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1324)...(0)

<400> 2842

```
ttttttttttt tgggtggggc acaaatggaa accatattaa cccctttatc attgtatagt     60
gactttattt gtctcatagt ttttgtatca aaatcaatac tccttctctt tttcctggtt    120
tccattggca tggaataact ctttccaact ctttactttc agcctatgtg tgtctttata    180
gtttaagtgt gtttcttgta ggcaacagat caatgggtct tgttttctcc attcattcag    240
ccagtctatg tcttttgatt ggagagttta gtccatattt ccattcaatg tattatcgat    300
aagtaaagac ttactcctgc cttgttattt atttgttttc tggttgtttt gtggtcttct    360
tctttctttt cttcctgtct tcctttaggg aaggtagttt gctctggtga tatgatttag    420
gttttttgctt tttattttttt atgtatccag tgtatgtttt taggtttgag gttaccataa    480
```

```
ggattacaaa tactattttg taacccatta ttttaacctg gtaacactgt ttgcattaac    540
aaacaaaaaa ctaataaaaa ctctacatct taacttcatc cccccacttt ttaacttttt    600
gttgtttcta attttatctt attttctga ctggtcttga aaagttgtag ttactatttt      660
tgattggttt atcatttatt ctttctactt acacaccaca gttacaatgt tatcacactt     720
tgggtttttc tgtgtactta ctcttaacag tgagtttttt acctttagat gattctttgt     780
tgctcattaa tgtctgtttc tttctgacca aagtactccc ttaagcgttt cttatgggac     840
cagtctagtg ttgatgaaat ccctcagctt ttgtttgtct gggaagtctt tgtttattct     900
tcatgtttga aggatatttt tgctggatat actattctag ggtaaaggt ttttttccctt     960
cagcacttta acatatgtca tgtcactctc tcctggcttg taaggtttcc actgaaaaat    1020
atactgccag atgtattgga gctccattgt atgttatctg tttcttttct cttgctgctt    1080
ttaggatcct ttctttaccc ttgtcctgtg ggagtttgat tattaaatgc cttgaggtaa    1140
tctttgggtt aaattggcct ggtgttctat aaccttcttg tacttggata taaatatctt    1200
tctgtaggtt taggaagttc tatgttatta tcccttttcaa caaactttct attcctatct   1260
ctttctctat ctcttcttta aggccaataa ctcctagatt tgcccttaag aagttatttt    1320
ct                                                                    1322
```

<210> 2843
<211> 3506
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3467)...(698)
<223> similar to gi5917666 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2843
```
tcgcacacag cacatgcaca caggtgcaca gaccacacag cacacacaag tgcacagagc     60
acactggaca catgcacaca cacacgcgtg catgcacact cctcgcactt ccagccttgg     120
agcccttctg tctctggact ttctctttga ccctgctgag tgtaagctgc ctggggaggg    180
gctacaagga gtaattgtgg ctttaggggt cgtggtgatg ctggaatgtc aagcgccgtc    240
gtggggtatc cgactgtccg ggctcctggt ccgcagtggc agagcgccag gcagagccca    300
atcagggtct cgtgctgccc ttcccccccca cagcctggca gccatccaga ggaggggctc    360
taccagatgc caaggtgccc cggtgtctgt atgggtgtcc ggttgggtcc tgtgtttggt    420
ctgccctgga ggtggctggg ccctcctggg atgggtggct cagcctcgaa tcccaggccc    480
cagcccaggc aggtgctgct gcctgttgtg gtttcctggc ccagcttctc cttctccctc    540
tgcataaaat cacagtccgt gagtcttcca gctgccacca cggctgggac acgctggggg    600
agggctcctc ccatgcctcc tgcacacagc cgtctgagca gggcaggtgc ccaacacccc    660
ccaccggagg acacgctgcc cctcagcgat gcccctacct tttggggggc ctcgtctcaa     720
gccccccctt ggaggctgaa atcaccccag gcactgtgag ggcttctcca gggggcaccc    780
tttgagctgt gggtctgatc accccaagtc ccgcccggag gagaggcaca gccagggcgt    840
gtggtttaat gtttgccccc ttcggggctg gaggtctcag tgtttctaga ttccagaccc    900
tgctgccaga gagacctgct gccggagaga aggggaggag gactccagct gggctcggtc    960
ccccacagtc agggaccccc ataaaggaca cccccttctc tctagaaaga gctgggctct    1020
cagctatttc tagttgcttc ccagaagccg aggagcagaa ggagctgtga gagctttgca    1080
gaaacgccct tgtccccgcc ctcctgagct atgaatgccg tacagagcag aggctggggc    1140
attggcaaga tcacaggttg atgctgcaca gccccattga cacaaaccct caaagcagac    1200
gtgagaggga cggttcacaa agcttggacc tgccgtggag ggtgcccggc agacgtggcg    1260
tgagagggac ggctcacgag gcttggacct gctgtggagg gtgcccagca gacgtggtgt    1320
```

```
gagaggaacg gctcacgaga cttggacctg gtggagggtg cccagcagac gtggtgtgag   1380
agggacggct cacagggctt ggaccggaga gagatggctc atgagacttg gacctgccgt   1440
ggagggtgcc cagcagacgt ggtatgagag ggatggctca cgaggcttgg acctggtgga   1500
gggtgcccgg cagacgtgtg agagggacgg ttcacaaggc ttggacctgc catggagggt   1560
gcccagcaga cgtggtgtga gagggacagc tcacgaggct tggacctgct gtggagggtg   1620
cccagcaggg ggctgagctc tgaggggtgg gtgctcagtg cacgggtgcc cccagtgtcc   1680
tctgatcctg tccggtgcct cccccaaccc ccacacccat gcagaactcc caggtcacat   1740
gcacgtatgt ccagggcatg ggggtggcgt gaagaggcct ggtcagggcc tttaggggct   1800
gcaggacgga atggccgcct ggggagcctg tgtggctgtg ccgggcagcc atcctgcatt   1860
cccacccagc gcgcagtctc cacctcggcc ccagcaaagc gctaagcagc cggagagaca   1920
gccagggcgg cttcctgaag gatgtgggat ggtggactcc ggggtcgagg gaatacgcag   1980
gttcctgtcc ctccgggaga cctagagaag ctgcacaccc aggagctttc catgacccgg   2040
gagcatgagt gaatgggggt tccagtttgc tgaactttgc cgtcttgtaa gggtgggggc   2100
tgacggccga ccctgggagg aggtgacatc gccggggggag gttgtgggca acggtggagg   2160
aggagagacg ggaggggacc atttgggatg gaggggcctc ttcagagttt taaaaggcgt   2220
ttgtggggtg gagttgagtg tgctctgggc ttggacactt gccgtggtgc ccctggctgg   2280
ccgaggagac tggctctggc caggggcccc gtcctgagag gtcctcagcg tctgactctc   2340
ggccaggcgc cagcaaggag gggccggtcc ccggggctac caggcaggca cgtgcacatc   2400
gccatcgcca cacgccaact ccgcctgggt tttacaaagt cgttgcctta atgcatgtgg   2460
acaggaactc cctgaggtcg ccccatgccc cctggctgtg ccaggtacgg acgccctgga   2520
ccctgcgaac aggtggggcg ggcgaggggc ccaagggacg ggctccagag acacgcgcag   2580
ggcaggaggg gtctcacgga ggggtctcgc actgaggcgc cccaaagctg gtggtcccgc   2640
tggacgccat ccctctgccc gggatccaca cggcccacgt gtgcccgcca tgcccgcgcc   2700
ccacgccatt gcagtcttcc atcctctggc cgtgacggtg gctgcagctt ccccatttgc   2760
gccgttgcct ctggctgtct gcacttttgt tcatgctcca aagaacattt cataatgcct   2820
tcagtaccga cgtacacttc tgaccatttt gtatgtgtcc ttgtgccgta gtgacccagg   2880
cctttttttg gtggatgtgt taccccgcac acttcaatct caactttgtg caccgtccat   2940
tttctaggga tagacgccca gggaatgaac tctagttttc taacagatta gctgagatat   3000
taacttactc acacggacag gttgatgcca gagccgtaag aatgcgccag tgcgggtttg   3060
cggggggactt cgggtgtggg gtcctacggc cgcgatggcc gtggaaggtt ctggggatcc   3120
ctgctgccac ggggacgagt tcggacgcca ggtggacctg tgcactcagt aaaacgcagt   3180
gattcaacct ggacggtgtg tggcctcctc actcccactg tctctgggcg gccggtctga   3240
gggccgggga cttctggtcg atgctggggc tgagtcgggt gcggtgctgt ggaccgggtg   3300
tggggacgga tggtccctct cctcagggca cgaacgagct ggggtgttgt gaaacagtgg   3360
ggctgggggc cacagtgagt gaggagcagg ggcggctggg tcctagggct ctggctggcc   3420
aggtgacgag cgccctgtag ggtgatttat acccccacac agggtgcagg tgtccatcca   3480
cgttgccccc ttcctgccgt gatccc                                        3506
```


<210> 2844
<211> 1476
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1429)...(254)
<223> similar to gi188864 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2844

1665

```
tcacgtgtgc acagcttttt tacaggttac aaagtgtttc acatacatca tctcatcaat    60
tcctcacaac agccctgtga ggtaggcagg gcagggggta atgttcccat ttgtacagat   120
gtggagactg aggcccagag aggccagtga cctgcttgag gccacacagc aagtgagcag   180
caaagctggg accaaaggct ggggtgggcc ccacctccag cccctggctc tctccactga   240
ctgtgctgtc ccccagggag daccccagcc tctgtccaga gttttcagcc acaaccaagc   300
caggctccca ccccttgcag tagtgccgcc tggcagccca gcagacaggc tcccaccccc   360
atcggcagac ctgtccctc cacctgcgcc ctgcaaaag ccagcccgga gctgggccca   420
ggcctgcccc ctagcctgct cctgatggtg cctggggcgg ggtgggcagg tgggtggggc   480
tggaacctcc tttcctgttt tcctgagtga tccctcccca ctgggaaga gaagagaaag   540
gaggaagaag aggaggagga ggaagagaaa aacaagaaac tgagttggaa gagggccctg   600
gagcaatcag gacgtcaaaa gtttgcattc cgactagcta taggaaatag ttttttttctc   660
tttttattat ttcaagtttt cataaaaatc cataattatt gaaacccaag ttacagagaa   720
agttcgtaac ttttttattg aattattgac tctgccgcgt gtcggttcgt cggctttcaa   780
ctccagtctg tcaatgcccc tgtgtaggtg gggtccccag gtctgggctt ctgaggtcct   840
ggtagaagga gggcaggtgg tgaggggtgg cggggggcag caggggacgg aggcgggagg   900
gagaaagaga acgtgtgtag aagggtaggg aggaggtggg aaggactgga gagtgagcag   960
gtggcggcca ggccccttcc cctgccggc cgcccggggg tccctgcccc ccgccccggc  1020
ctcatatcat cttcatgttg aacttgcggg gcgcgtcggc ggagctgatg cctgcgtccg  1080
actttcgggg cacatactcg atctcgatgt tgtgctttgt gttgcccttg ccccggctcc  1140
agagaaacag cagcaccagg cagaagagga cgacgcccag gaaagagatg aagcccatgg  1200
tggtggcgat gatgagggtc ttgatgtcga aggggaaagg cacagtggcg cgggtgctgt  1260
tggcctctcc ctcgcccggc tggttggaga tgaaagcgaa ggtcttgttg ggctgatggg  1320
gccagtcggg cgagtagctg cgcacatgca ggtgggcggg catggagtcg ttgccgcccg  1380
cgttggccgc gatgcacagg tacgtgccgt tgtcctgtac ctgggcgtag cgcacctcca  1440
                                                                   1476
gcgtgccatc aggaagact gtgagccgcc ggacgc
```

```
        <400> 2845
ggaataagaa gacccttgaa gccccagaag gcatcagaga taaagtatct gactgggatg    60
agtttctgcg gcagaccctg ataggagcat gtagtcctcc tgttccgctg ctagagggcc   120
tccgtaatgg gaggaatcct ttagatctca ttgctccagg atccagacta gaatgtcaag   180
ctttccagga ctctttaagc acttggattg ttactgtagt agaaaacatt ggaggaaggc   240
tgaagctacg ttatgaagga cttgaaagtt ctgacaatta tgaacattgg ttgtattact   300
tggatccatt tcttcatcac gttggttggg ctgctcaaca gggatatgag cttcagcccc   360
cttcagccat tagacatcta aaaaatgaag ctgagtggca agagattttg gccaaagtga   420
aagaggaaga ggaagagcca ttaccatctt acttatttaa ggacaaacaa gttattggca   480
ttcatacatt ctctgtaaac atgaaattgg aagctgtaga cccctggtct ccttttggga   540
tctctcctgc tacagttgtt aaggtttttg atgagaagta ctttctggtg gaaatggatg   600
acttgcgtcc tgagaaccac gcacggcgat cctttgtgtg ccacgccgac agtcctggca   660
tcttccctgt gcagtggagt ctgaagaatg gcctacacat cagccccct ccaggctacc   720
```

1666

```
caagccagga ctttgactgg gctgactacc tcaaacagtg tggtgctgaa gctgctcccc    780
agaggtgctt ccctccgtta atttctgaac atgaatttaa ggagaacatg aagctcgagg    840
cggtgaaccc cattctccct gaagaagtgt gtgttgctac catcactgca gtgagaggct    900
cctacctgtg gctccagctg gagggttcta agaagcctat acctgaatgt attgtgagtg    960
tggaatccat ggatatattt cctttgggct ggtgtgaaac caacggccac cccctcagca   1020
ctcctcgccg agcacgagta tataaacaga ggaaaattgc agtggttcag ccagaaaaac   1080
aagtaccatc ctcgaggact gtccacgagg gcctgaggaa tcaggagctg aactccacag   1140
agtcagttat gattaatgga aaatattgct gtccaaagat atacttcaac caccgttgct   1200
tctcagggcc atatcttaac aaaggaagaa ttgctgagct gcctcaatgt gtaggacctg   1260
ggaactgtgt tctggtcctt agagaggtcc tcactttact tatcaatgca gcctacaaac   1320
ccagccgtgt ccttcgggag ctccagctgg acaaagactc tgtgtggcac ggatgtgggg   1380
aagtcctaaa agccaaatat aaaggaaaga gttatcgggc tactgttgag atagtgaaaa   1440
cagcagatcg ggtgactgaa ttctgccggc aaacctgtat caaacctgga atgcctgtcc   1500
taacctcttc ggtccacgga tggttctgga taagtgttct gagaactgtt ctgtacttac   1560
aaagaccaaa tacacacact attacggaaa gaagaaaaat aaaagaattg ggaggccacc   1620
tgggtgggca tagtaactta gcttgtgccc tgaaaaaagc cagtaagagg agaaagaggc   1680
ggaaaaatgt ttttgttcat aaggaagaaa cgctcctctg catctgttga taataccca    1740
gcgggcttct cccccagggg aagtggggt tgaaggatga gggatgaccc cagatgaagg   1800
ggatgattga ttccctaagt gaaggcagta catccgagca gcaggatgag ctacaggaag   1860
aatcagaaat gtcagaaaaa aagtcatgct cctcttctcc cacccaaagt gagatatcca   1920
catcgctgcc tccagataga caaaggagaa aaaggagct tcgcaccttt tcattttctg   1980
acgatgaaaa taaacctcct tcaccaaagg aaattgatgg gcaggccctg ttgctcctta   2040
cccttcccac tgttcaagaa tgcatggact taaaattggg ccctgccatc aaactttgcc   2100
atcacataga gaggatcaag tttgcttttt atgagcagtt tgccaactga gaaggacaac   2160
caaagtgagc tggatctttg aagcacaaat gcagcaaatc cttcaccctg ctttataagt   2220
ggagctggaa tagtcctggg gctctggggc ctgcaggtat cagcttgctc tctttgcact   2280
ttcggggaag gaggactcac agtgaggaag caaaaactgt gcacagaagt ggatcacctg   2340
ctggtggaaa tgtggacatc tcttgttcag cagatggcag tttttaaaaa ataaaggttg   2400
tgaggaaaag acttatataa gaagaaaagc atttccagtg gtgtggccct gaaaacaaag   2460
aataacctag gctgctggaa agcacccttt tggttgtttt cattctgttc cctcccattg   2520
tagattgaac tttggttctc tgctttcttt ttcttggaaa gagaggactt agctttaagt   2580
cagcactgat ttgggactgt tcctaaggca tatcagtgct tcattgtcat tgtgtttta   2640
aacttttaa aattaaaaca gttcattttg gggatgatta tgtggctcta gggttttgaa   2700
tgtatagtca cactttgatc attttaaaat cgattcttag gagttccttt gtttactacc   2760
tctgttgata attgagctta cagccatgta tgaggttttt tgtatgatgc cattttaag    2820
ctacataaac actaaaatta tgacagaaaa aaacaaaaaa aa                       2862
```

<210> 2846
<211> 919
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (920)...(50)
<223> similar to gi4324434 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2846
ttttttttt tttacaaatc ctcattacat ttatttacta gtgtgttaaa catatactag   60

1667

```
atcgcgattt ttaatctctg agcctgtgtt ttgatcatct tcatccgact gctgctctga    120
gccttgtgaa ttaatgtatt catattcaat aggcttcgga taattatatg ggtagccatt    180
gtcatcaaaa aaccttcgga aggtaaattc atagaatgca tgttcaggat gctttccatt    240
tttataccat ccattgagag tgtcatttac attttcttcc tcgttatcat cactccataa    300
tttatcagga tcaacaagga tcaaaatttg atgtatctgt tggggtggtg tgattttagg    360
ggaattgttt gaaagccgac ctgctgtctt caggtcactg ggagaagtca aattggtttt    420
aaaaaatggg atgagctttt atttcatcag caccattctt gcctaagcga tcttcgggtc    480
ctcggcaaag tttaataata agatcagaag cttcaggact gagtttagct tgtggtggaa    540
tgtgaagaga tgtttgccag ttgataacct tcatttgtgt ttctaatggt gtttgtgcca    600
agaaaggagg ttgtcccacc aacatttcaa aaagaataac accaacactc caccaatcac    660
acaactgtgt gtatcctgtt cgtagcaaca cttcaggtgc aatataattg ggagtcccaa    720
ccaaagaatg tgctagacat cgctggtgct ggcgtgcagc tctccgctct aatggcttca    780
gtctgtctcc acatcgacag cttgagggat cccccccattc attactgaaa tccatgctat    840
cttgccgtgg atggtcacca ctctgatagt acttagaatc gtgtgtccat ctgaagccag    900
                                                                    919
tgcagaggcc aaagtcagt
```


<210> 2847
<211> 1204
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1203)...(142)
<223> similar to gi1017722 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2847
```
tttttttttt ttgacttcaa acatcctgca acctttaata tatatcatgt tgtgtgagtt    60
ttaacacatt tgggcttgca tttgttctac aatgtgtaat atgaaaagtt tatcagcaca   120
actagactga attattcctc acataaatcc ttgggatgtg ttacagtttt gatccttggt   180
taataggctt caacatggca caaaatatac aaggatgttt acacattttg atgtctagtg   240
agttgtgaga cctaaatgaa gcctctgcca cacagttagg gggtatatgg atttctcttt   300
agcatggact ctgatgtcaa tgaatgcttg aacttgtgat gaagggtttg ctgtactccg   360
taagggattc tctcaaggaa tgaaattctc tgatgctgtg taggagtgaa ttgtgactgg   420
aaaaccttgg ccacatttat tatactggaa tggtttctct ctgatataaa ttctttgatg   480
actcacagga tttaaacttt gactgaagac cttgccatat taatttcttt tataaggttt   540
ctccttagta tggataattg gatgtctgaa gaggtttggg cgcacactaa aggacttccc   600
acaatcacta catttgtaag gtttctttcc agtatggatt atctgatgtc tagtgaggtt   660
tgggcgcaca ctaaaggatt tgccacactc attacatttg taaggttttt ctccagtatg   720
gatgacctga tgggtagtta ggcttgaatg cacactgaag cctttgccac attgattaca   780
tttgtaaggc ttctctccag tatggatgac ctgatgggta gttaagttcg aatgcacact   840
aaaggctttc ccacactcat tacacttgta aggtttctct ccagtatgaa ctctccgatg   900
actcgcaagg tgtgaattgt aactgaaaac cttaccacat tcattgcatt tgtaaggttt   960
ctctccagta tgaattctcc aatgccttgc aaggcttgaa gtctgactga agactttacc  1020
acattcatta cacttgtatg gtttctcccc agtgtgaatt ctctgatgag ttgcaaggct  1080
tgaagtctga ctgaacacct tgccacattc attgcatttg taaggtttct tgccactatg  1140
aattacctga tggttggtaa gtgttgacct cacactaaag gctttgccac actctttaca  1200
                                                                   1204
tgtg
```

1668

<210> 2848
<211> 1873
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1164)
<223> similar to gi4263748 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2848
```
acggcacaac ttgctatttt tattagaggt attgatgatg aatataatgt cactgaagaa      60
atcgaaatgt caccatgcta ttaaaagaca caactaaatc aagagattta tatgaagcag     120
tgaaaaatat gttaaagcaa ttttctttgt cctttgtaaa catatgtgat atagctacag     180
atgctgccct ggcgatggta ggtaaaagag agggacttgt acaattaata gatgatgcag     240
ttgccacaca aaactcacat ttgatgaagt attattgcat aatacatcaa gaaaatccat     300
gtgcacaagc tttaaaagta gataacgtca tgcaaattgt catcaaggct gtaaatttca     360
caagggccca ggaattgaat catcgctagt ttcaggaatt ccttaaaagt atggatgctg     420
actctagcaa gtcattcact ttttagaagt aagatggtta agtcaaggca aaatgtaaag     480
attttatgct ttgtgatgtg aaatcaagct gtttatggta tcaaacaaaa ttggtgccag     540
aacttgacaa tgaaaactgg cttacagatt tagcattttt agtgggtttg acggcccatt     600
taagtgagtt aaacctgtgt cttcaagttg aaaaccaact taacaataca atgtttcaaa     660
ccataacagc attccatatg aaactgaaat tatggcaagc tcaaattaag gcaaacaatt     720
ttatgcattt cgacatgttg gctaaacatg gtcctgtgaa cagccaaaaa tacgcagcct     780
tgcttttcaa tttgatacag gaatttgaaa acaggtattt caagatttct gaaaaaatca     840
tcaatatttt ggtatatttg caactccatt ttcagtcgac atatatatgt tacctggcaa     900
ttttgaaatg gaatgcctag agctgcaatc tgatgttcaa cttatagaaa aatttgattt     960
tgcctcttta ctggactttt gtaagacctg tcttcccaat gacaaatatc ccttgcttca    1020
caatcacacc ttgttcatgt cattgctttt tggcagcact tacatttgtg agctactatt    1080
ttcaaggatg aagaacacga agagtaaaat tagaaccaaa atatctgatg agcaccttga    1140
gaactcactg agaattgcaa ctacttccat caagccagat actgatggat tagtttctca    1200
aaaacaatgt caagtacccc actagtttta tgttggtctc ttttctttta taataaaaaa    1260
tatcaaaaaa gtagtgaagt ttagctagat atgtacattt tctgtatcag tgattgcaaa    1320
cttggaacct gttcaatgat tttgaaagac cctctgaaat gggccagtgc ataattagga    1380
ttattatgca aggacatttt tgcttatctg tggtggtaga tatataatga aaactataca    1440
cagaccattt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtat    1500
tttatgtgtg gcccacgaca cttcttcttc cactgtggcc cagggaagcc aaaagattgg    1560
acacctctgc tttaattctt atcaaaatta tggcaggttt gtttgtagac acttacaagc    1620
ttattctgaa tttttatgga aaggcaaggg acaagaaaag ctaaagccat tctgaaaata    1680
taaatcaata aagtggaaag aattgcccta tatgatgtta agagttactg tacagctact    1740
agagtcacca cagtgtggta ttagtggagg agtaaacaat aagaaataga ttcacaaaat    1800
atactcagct gagttttgac aatatgccta cctttccaaa atggtgttgg aacatttgga    1860
cagctcatag ggg                                                       1873
```


<210> 2849

```
<211> 803
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (59)...(716)
<223> similar to gi1504034 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




      <400> 2849
agcttggcga cttggggggcc aggggccctg gggctgaagg gtccagggct gtgggcttct    60
ggggggagcct tcagagcttg atcaaggaaa gggattaggg gtaggggatg acaggggtct   120
gtggctggag ggagctggga tgcaggaaat ggtctttggg tcgggtattc agggcctcgc   180
ttcccctgag tcattctttc cacccccctgg ccgcacgtgg acccaaggtg aggaagtctg   240
ccctgagcca ggctctcgag gtcccggccc tcgcccccgc gcggggcctt agtgctcttg   300
cccaccgaca gctctgggtg gatcgcccag tggcgcctgt ccgtgttttg gcgcccccta   360
gcagcggcgc agttgcgcct gtttcgatag gcgagcggat tggcgcccct ggttgccgga   420
gcaatccctt aggcctggtt ccctgccgcc tggagcctcg gctcctcgca gtcaggtggg   480
ttctgggggt gccagcaggc tctgagagtg ccggccgcgg ggccctcgca gcttgcctgc   540
tgcagtcgga gctggtaaac tacgagcgcg tgcgcgagta ctgtctcaag gtactggata   600
aacatcaggg caacttcaag gccacctacc gtgccggcat tgccttctac cacctgggcg   660
actacgcacg cgcgctgcgc tacctgcagg aggcccgcag ccgggaaccc acaggtgagt   720
ggcggagcgc gccacacgag agggctgggc ccacggcggc gaaaggggct gcagcggaag   780
gaacacgccc tatgattagg gcc                                          803
```


```
<210> 2850
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (131)...(337)
<223> similar to gi182201 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




      <400> 2850
ttttgcttgg ctcttctcat tctgaagtct aaatcctact cgctcttctc ttcaaggcca    60
cgctctccat taaacccctg gtgatcccct accacaccac aatagataac cttacttgca   120
ctcatgaatc ctactcccag aactgccccc taaccgaacc gcacctatag taccagtacc   180
ctgtgcaagc tgactctggc atctcaactg actacagctc aagggactcc cagggagccc   240
caagggogctt attcgatggg ccctaattcc acccctattg aaacaagcct aatccaaccc   300
gctaaccctt tgcccccaca caatgtgcct tgctctaaga acaccagcct gcaaata       357
```

1670

<210> 2851
<211> 867
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (868)...(461)
<223> similar to gi558846 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2851
```
tttttttttaa gtttatataa ctttattata agtattaatt tgtttgaatt aagtttatat      60
aactttaata taagcattaa tttgtttgaa atataaagta ttataaaata ttgtaattaa     120
gcttacagat aatttttaaa atatatacat tatgactaat ataccaaaat tatttatatg     180
tacacattta tatttaatac ccaaagaaaa tttactacca cattgctaca gtagatatta     240
acctgacatg tttattaatt gatcctatag gtataattat aggtcagcat aattttacag     300
tctattcttt tatttttacta aattaggaat gccactattc ccggacaaat aaatgcaggt     360
gatgtggcca cccaagaatc atagtagctc ttcagttagc tatcttgcaa tctctgatat     420
aattctacta tgtgaataga gtgaattcca attcttcatc aaaaagtgct ggtggaggtt     480
gtcaggtgtg ttccagtata gattcccaat ccaacggccg gcagatggga gagcagcaga     540
gatggaaatt gtgctcagaa taagccctct ttctcataat acttgtattt ctcatgctga     600
gagtagctgt gcacttttgg tgtttagaga agaacttctt tggaagaata ttttctggtc     660
aatttgacca atgttacatg taatctgaat tagtctgtaa gattctttca acctcttttc     720
ttctctcaat acggttttac tcagactgag agctgtcttt ctcttcaatg ctttgggaat     780
tcagtgcttt gtgtctaagc ccctattagt atcacatggt gtctgtgagt gagggggggct     840
gtcaccgtga gaactcctgg agctgct                                         867
```


<210> 2852
<211> 2367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(2368)
<223> similar to gi5419887 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2852
```
gacaaaaact gaagcagaac caaccaaaga gagcacatgt agaagatgga ggttcaagat      60
ctaaacaagg aaatgagcaa agtaagaaga caccaattga gaaatctgat tttgctgctg     120
ctacacatcc tcgtgctttt tacctcagta aaccagatga aactccaaat gcttggatgt     180
ctgattcagg aacaggattg acttactgga aactagagga aaaggatatg caccactctt     240
tgcctgaaac tttagagaag acgttcatat cattgtcttc cacagatgtg tcaccaaacc     300
```

```
aggtcctgac tctagatcct acgttacaca tgaagccaaa gcagcagatt tcagggattc    360
aacctcacgg ccttccgaat gcccttgatg acagaatatc cttttccccg gactctgttc    420
tagagcctag tatgtctagt ccctctgaca tagactcatt ttcacaagca agtaatgtca    480
cttctcagtt acctggattt ccaaaatatc cctcacacac aaaagcttct ccggtggact    540
cttggaaaaa tcagacattc caaaacgaaa gtaggaccag ttccacgttt ccgtcagtat    600
ataccattac tagtaatgat atctcggtca acactgtaga tgaagaaaac actgtcatgg    660
ttgcttcggc ctcagtcagt cagtcccagc ttccaggtac agccaacagt gtcccagaat    720
gcatttcatt gacttccttg gaagatcctg tgatattgtc taagattagg cagaatctga    780
aggaaaagca tgctcgacac atagcagatc ttcgagctta ttatgaatca gaaataaata    840
gtttgaaaca gaagctggag gcaaaagaaa tctctggagt tgaagattgg aagataacca    900
atcaaattct tgtagacaga tgtggccaat tagatagtgc tttgcatgaa gctactagtc    960
gcgtgagaac acttgaaaat aagaataact tactggaaat tgaagtgaat gatttgagag   1020
aacgcttcag tgcagccagc agtgcttcca aaattttgca ggaacgaatt gaagaaatga   1080
gaacaagcag taaagaaaaa gacaatacca tcattcgact aaaaatctaga ctgcaagatt   1140
tagaagaagc atttgagaat gcttacaaac tctcagatga taaagaagct caactaaaac   1200
aagagaacaa aatgtttcaa gatctttttag gagagtatga gtcccttgga aaagaacaca   1260
ggagagtaaa ggatgcatta aatacaactg agaataaatt gcttgatgca tatactcaga   1320
tttctgattt gaaaagaatg atttcaaaac ttgaagctca ggtcaagcaa gtagaacatg   1380
aaaatatgtt aagccttcgt cataattcta gaattcacgt gagaccctcg cgtgccaaca   1440
cactagcaac ttcagacgtc agcaggcgga aatggctgat tccaggtgca gagtattcca   1500
tctttactgg ccagcctctg acacccagg acagtaacgt ggataaccag ctggaggaaa   1560
cctgtagcct agggcaccgt tcacctctgg aaaaggattc ttcacctgaa gttcatcaac   1620
aagcttgttg ataaaaaagc aaagagagac ttcagacacg ccgatcatga gagctttaaa   1680
agaacttgat gagggaaaaa tatttaaaaa ttgggggaca cagacagaga aagaggacac   1740
ctcaaatagt ctgctgtagt aaatcctcgg caaactgaaa cttcagttaa tgcaagtcgt   1800
tctccagaaa agtgtgccca acagagacaa aagagactta attcggcctc acagagatca   1860
tcatctttac caccttcaaa tcgtaaatca agtactccaa caaaaagaga gattatgcta   1920
acaccagtga ctgtggctta tagtccaaag cgatcccta aagaaaactt gtccccagga   1980
tttagtcatc tgcttagcaa aaatgagagc agtccaattc gagaaaaaac ttattctgag   2040
aaagccaccg ataaccatgt taatcatagc tcttgccctg aaccggtgcc aaatggagtg   2100
aagaaagtat ctgtgagaac agcctgggag aagaataaat cagttagcta tgaacagtgt   2160
aagccggttt cagtcactcc acaggggaat gattttgaat atacagcaaa aattcggacc   2220
ctagctgaaa cagaacgatt ttttgatgaa cttacaaaag aaaaggacca gattgaggca   2280
gcactaagca ggatgccttc tcctggagga cgaatcactt tacagacaag attaaatcag   2340
gtgaaatgtc ttagcttgaa tctgctt                                      2367
```

```
gcggccgctg caggacgcgg ccgaagacct caaggcgaag ctgcgagaag tcactggagc     60
atctccggaa gcagatgcag gatgcgtttg ctgttccaag cccaggcgca gtgagacctg    120
```

```
cgtcttgtgg cagaagatgg tggagagcca gcggcagaga cgtgctgggt gagttcgagc      180
gtcttcgccg tttgctggca gaggaggagc agcagctgct gcaggaggct ggaggaggag      240
gagctggagg tgctgccccg gctgcgggaa gggcgcacac cctagggcca agcagagcgc      300
cccacctagc tgagctcatc gccgagctcg aagggccgct gccagctgcc tgcgctgggg      360
ctgctgcagg acatcaagga cgccctgcgc agggtccagg atgtgaagct gcagcccca       420
gaagttgtgc ctatggagct gaggaccgtg tgcagggtcc cgggactggt agagacactg      480
cggaggtttc gaggggacgt gaccttggac ccggacaccg ccaaccctga gctgatcctg      540
tctgaagaca ggcggagcgt gcagcggggg gacctacggc aggccctgcc ggacagccca      600
gagcgctttg accccggccc ctgcgtgctg gccaggagc gcttcacctc aggccgccac       660
tactgggagg tggaggttgg ggaccgcacc agctgggccc tgggggtgtg cagggagaac      720
gtgaacagga aggagaaggg cgagctgtcc gcggcaacg gcttctggat cctggtcttc       780
ctggggagct attacaattc ctcggaacgg gccttggctc cactccggga cccacccagg      840
cgcgtgggga tctttctgga ctacgaggct ggacatctct ctttctacag tgccaccgat      900
gggtcactgc tattcatctt tcccgagatc cccttctcgg ggacgctgcg gcccctcttc      960
tcacccctgt ccagcagccc gaccccgatg actatctgcc ggccgaaagg tgggtccggg     1020
gacaccctgg ctccccagtg actcgggccc tcctggagga gtcctgttgc ctctcctgcc     1080
cctccaggcc actgagtgtt ttggccactt ggaggacctg ggaggaggga gtgtgtcctt     1140
tgagcaagag gaggaactcc tggtgccttt ctgagcctgc gtgggagaac cccaattcta     1200
gcactccagg aaactgtggg agagtgtggg gcaggctccg tcctccctgg agacccctc      1260
cagccaccgg gtgccactta atgccaacag cccttaccaa agctgggagc cccattgccc     1320
cggcagctct ggcctgtggt tccagaagct gagaaaactc cactggggct tgcagaatcc     1380
agggttcacc taagctgcac agttcctgca gctttgccag cccctgaaa gtcttgtgta      1440
ccccacctct gaagatgctg ggggaggcag ctgggatggg agccagcccc atgcctgtct     1500
gtgaccccac agtgggtgag agcccgtcac agtcctgggt gtggctgctc tggaagaatt     1560
aggaggcagc cataataaga gtcttcagag agatgatggg aggggccagt gaggacagga     1620
acagagagta gatgtcctat aataaagggg cttctgggag gtgcctgggc acagatgtct     1680
gttcagcagg tgtgtgggcc tagaggagag agcagagccc agaaatgtct tttgcaggcc     1740
cacgttctga cttgaagctt tcgtgggcat gttgccattg ggttttgccc ttgcaaaggc     1800
ttcctaggtc tccagtggcc cctcaggacc cagggtccca gctgctgctt ggggatgtgc     1860
actgctggcc gccggccttg cagtctctct accctgggga ggaacagtgg cttctcagag     1920
cctggggcat acagaagaag gcaggagttg attttgtgt tgggtttggg gtttctttgt      1980
cctcaaggta ctgttctgtt tctctttacc cctctgcttt atttattgta agcattccca     2040
                                                                      2078
cgttaaataa actttggctg ttgtctacaa aaaaaaaa
```

```
<400> 2854
ggcacgagct accacaacag tccactaccg acgacgttta tcgtatctat agagggccat       60
acgcacctcg cctatggccg ctctactaac ccctactgac gacccatgca gaaatcctac      120
agtctcctac tcacgacgcc taccgttacc tattcatgac cactagcgca accatacagt      180
cccctaccca tgagccctgg cataacccta caatcccta ctcaccacac ctagcataaa       240
```

```
cctacagtcc cctacccatg acccctggag taaccctaca gtcccctagt cactacacct      300
agtgtaacta accatacagt tccctatcca tgacctctgg cggaacccta cactccccta      360
ctcacaaccc ctagtgtaac cctacagtct cctacccatg acccctggg                 409
```

```
<400> 2855
ggcacgagcc ataagaacag gattacataa taaagttatg cttatctgat gtgtactggg      60
atttaatatt cttgcttgtg gtcagacata tcttaagtgt taaattgctt agaatatttg     120
tgatttctgt ataaggcatt aaagaatagg catcagggac tagttagaat ttgaacaaaa     180
tgtatttata acactttta ttgttggaaa ctcaactttt attctgggtt aagcctctag      240
ataaaatctt aagtctgcca aactattatt cccccacct tttctttccc caactatcaa      300
gaccattcta ggaagtacgt cactctacca aaaatgattg agttgtgttg ggcctgggga      360
aaaagtcggg caaaaggagc ctttcttgtg gctgctgata gttaggttca tccaccaccg      420
cactttgagc tcgactagag tcgccatggg gtttcatctg tctttgtggg gccccacagg      480
tggctcacat ggttccactt tcaggctgtg ccaataggtg gtacgcagat tatttcgact      540
cagggcgtc ggtgagggag aggagagcga gtcgggtgcc actgggcacg gtttccagaa       600
gttctgcttt tgaaacctac actcgggctc ctctgaggat ttcttccaca gatcttggtg      660
tttcagcaca tgaatggctc gtgctgatcg gatgaagagt tcgtggtggt ggattgcgtc      720
tcctggtgga ctgcactgtg tatgacagag atgatgtact aaactccaca gctcgatttg     780
gccaatttcg agttgaaagg atggtactgg acccaggcct cataagtagc ttgtcatcaa      840
gatctaggag cttgtccatt agggagagat ttcttggctg tagaggcatt ccatgaacca     900
agagatcatt cacatttggc tgatgtctgc ttgcttgaca gagactcatc ttagactgtg     960
gcactcgcg                                                             969
```

<400> 2856

```
ggcacgaggt aggaaccagt ggtctatgtc ccgaccacta cttggcttga tagggcttaa      60
tgaaaaggtg agagagccag ctccctggtg ccaacccaga agcagtggca accacgcact     120
tggtatcacc aagccctggg agaaatgtgt atagaaacac cccacggtgg tgaaacaggg     180
aaaatgggtc atttactgag caagtcccat ttgtgctttc agtatcacat aatcatttaa     240
ctgttagaag tcagcatgtg tggtagctca cagacacagg ataaaggagt gtttccccta     300
ggcagtaaga gaaacctttc aaggaaataa tgtacctggg tatcagagga cctaagacct     360
aagttctagt tctagctctg ctataaacaa gtcttgagat tctggtaaaa gaaaggtctg     420
gataagatga cccttttaaa gtgctttaca atttaaaaat tcttgatatt cttagtagga     480
tgaagccata ttatcccaca agtgcttgcc tgaatttctt ttttaagggt ccaattttag     540
tagacattcc attcctcctt agagaagaac attcttcaac cctgcagatg acggagggct     600
aatctgcctt cccctgcttc tctaaccttc tgttccactc cttgccccac agtatttttc     660
tgacctaaga aacagtattg tgaacagcca gccaccggag aagcagcagg ccatgcacct     720
gtgttttgag aacctgatgg aaggcatcga gcgaaatctt cttacgaaaa acagagacag     780
gtgagtataa agcgtcctgc ctagaaatct cagacaattg ctatttttca aatcaacgaa     840
acaggcagtt gctttaaagt ctttgacatc tgtgtttgga ggccatctaa agcaatgcaa     900
tccaatagaa aagtgagcca tgttaaacag gcaaaattca ttttaataat atattttatt     960
taacccattg tatctaaaat attgtatcag tgtgtaatca gtattttaaa attgtgggtt    1020
ttcacattct ttttgtacta catttccaaa atcctgtgta ctttacattt aacagcatat    1080
ctcagttcat acgttttcat cagaaatact tgatctgtat ttagatttca taaatttaca    1140
gttgacaaag tagattcctg taatacccag attgtttcaa acacacctag ggactttcca    1200
gtaactgcat tgagtatctg ggctttgcaa ttaactttta aattttattt aattttaatt    1260
aatttaaaac aaggcatttt aatttaaaat taagatgcag ttggggagct gaatgttaaa    1320
ttgtatttaa tttggattca tgttctcagt cacactggcc ataattcagg ggcacggtag    1380
ccatatgtgg ttaggcagcc gccctattgg gacaggcata gcactgcacc acctgggtct    1440
tgctggcatt aaggaaatga ggatgggctt cattgggctt tactggccct tcacgtgtga    1500
gggcaacttc ctacttctgt cagtgagatt tcttttgtgc tgccatgagc ccaaggtagc    1560
cctcagggcc ccagatttga ccagatctct aagccaactt ttctcttaga gtcttaagac    1620
tgaaattaac tgatctttga aacagaaccc atcaattcat acattctact tcccatgctt    1680
taa                                                                  1683
```

<210> 2857
<211> 4279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3530)
<223> similar to gi3327188 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2857

```
caagtctata agggtcgaca tgttaaaacg ggtcagttgg cagccatcaa agttatggat      60
gtcactgagg atgaagagga agaaatcaaa ctggagataa atatgctaaa gaaatactct     120
catcacagaa acattgcaac atattatggt gctttcatca aaaagagccc tccaggacat     180
gatgaccaac tctggcttgt tatggagttc tgtggggctg ggtccattac agaccttgtg     240
aagaacacca aagggaacac actcaaagaa gactggatcg cttacatctc cagagaaatc     300
```

1675

```
ctgaggggac tggcacatct tcacattcat catgtgattc accgggatat caagggccag    360
aatgtgttgc tgactgagaa tgcagaggtg aaacttgttg actttggtgt gagtgctcag    420
ctggacagga ctgtggggcg gagaaatacg ttcataggca ctccctactg gatggctcct    480
gaggtcatcg cctgtgatga gaacccagat gccacctatg attacagaag tgatctttgg    540
tcttgtggca ttacagccat tgagatggca gaaggtgctc cccctctctg tgacatgcat    600
ccaatgagag cactgtttct cattcccaga aaccctcctc cccggctgaa gtcaaaaaaa    660
tggtcgaaga agttttttag ttttatagaa gggtgcctgg tgaagaatta catgcagcgg    720
ccctctacag agcagctttt gaaacatcct tttataaggg atcagccaaa tgaaaggcaa    780
gttagaatcc agcttaagga tcatatagat cgtaccagga agaagagagg cgagaaagat    840
gaaactgagt atgagtacag tgggagtgag gaagaagagg aggaagtgcc tgaacaggaa    900
ggagagccaa gttccattgt gaacgtgcct ggtgagtcta ctcttcgccg agatttcctg    960
agactgcagc aggagaacaa ggaacgttcc gaggctcttc ggagacaaca gttactacag   1020
gagcaacagc tccgggagca ggaagaatat aaaaggcaac tgctggcaga gagacagaag   1080
cggattgagc agcagaaaga acagaggcga cggctagaag agcaacaaag gagagagcgg   1140
gaagctagaa ggcagcagga acgtgaacag cgaaggagag aacaagaaga aagaggcgt    1200
ctagaggagt tggagagaag gcgcaaagaa gaagaggaga ggagacgggc agaagaagaa   1260
aagaggagag ttgaaagaga acaggagtat atcaggcgac agctagaaga ggagcagcgg   1320
cacttggaag tccttcagca gcagctgctc caggagcagg ccatgttact gcatgaccat   1380
aggaggccgc acccgcagca ctcgcagcag ccgccaccac cgcagcagga aggagcaag    1440
ccaagcttcc atgctcccga gcccaaagcc cactacgagc ctgctgaccg agcgcgagag   1500
gtggaagata gatttaggaa aactaaccac agctcccctg aagcccagtc taagcagaca   1560
ggcagagtat tggagccacc agtgccttcc cgatcagagt ctttttccaa tggcaactcc   1620
gagtctgtgc atcccgccct gcagagacca gcggagccac aggttcctgt gagaacaaca   1680
tctcgctccc ctgttctgtc ccgtcgagat tccccactgc agggcagtgg gcagcagaat   1740
agccaggcag gacagagaaa ctccaccagc agtattgagc ccaggcttct gtgggagaga   1800
gtggagaagc tggtgcccag acctggcagt ggcagctcct cagggtccag caactcagga   1860
tcccagcccg ggtctcaccc tgggtctcag agtggctccg gggaacgctt cagagtgaga   1920
tcatcatcca agtctgaagg ctctccatct cagcgcctgg aaaatgcagt gaaaaaacct   1980
gaagataaaa aggaagtttt cagacccctc aagcctgctg cgaagtggga tctgaccgca   2040
ctggccaaag agcttcgagc agtggaagat gtacggccac ctcacaaagt aacggactac   2100
tcctcatcca gtgaggagtc ggggacgacg gatgaggagg acgacgatgt ggagcaggaa   2160
ggggctgacg agtccacctc aggaccagag gacaccagag cagcgtcatc tctgaatttg   2220
agcaatggtg aaacggaatc tgtgaaaacc atgattgtcc atgatgatgt agaaagtgag   2280
ccggccatga ccccatccaa ggagggcact ctaatcgtcc gccagactca gtccgctagt   2340
agcacactcc agaaacacaa atcttcctcc tcctttacac cttttataga ccccagatta   2400
ctacagattt ctccatctag cggaacaaca gtgacatctg tggtgggatt ttcctgtgat   2460
gggatgagac cagaagccat aaggcaagat cctacccgga aaggctcagt ggtcaatgtg   2520
aatcctacca cactaggcc acagagtgac accccggaga ttcgtaaata caagaagagg   2580
tttaactctg agattctgtg tgctgcctta tggggagtga atttgctagt gggtacagag   2640
agtggcctga tgctgctgga cagaagtggc caagggaagg tctatcctct tatcaaccga   2700
agacgatttc aacaaatgga cgtacttgag ggcttgaatg tcttggtgac aatatctggc   2760
aaaaaggata agttacgtgt ctactatttt gtcctggtta agaaataaaa tacttcacaa   2820
tgatccagaa gttgagaaga agcagggatg gacaaccgta ggggatttgg aagggatgtg   2880
tacattataa agttgtaaaa tatgaagaa tcaaattct ggtgattgct ttgaagagtt    2940
ctgtgggaag tctatgcgta ggcaccaaag ccatatcaca aatttatggc ctttaagtca   3000
tttggagaat tggtacataa gccattactg gtggatctca ctgttgagga aggccagagg   3060
ttgaaagtga tctatggatc ctgtgctgga ttccatgctg ttgatgtgga ttcaggatca   3120
gtctatgaca tttatctacc aacacatatc cagtgtagca tcaaacccca tgcaatcatc   3180
atcctcccca atacagatgg aatggagctt ctggtgtgct atgaagatga gggggtttat   3240
gtaaacacat atggaaggat caccaaggat gtagttctac agtggggaga gatgcctaca   3300
tcagtagcat atattcgatc caatcagaca atgggctggg gagagaaggc catagagatc   3360
cgatctgtgg aaactggtca cttggatggt gtgttcatgc acaaaagggc tcaaagacta   3420
aaattcttgt gtgaacgcaa tgacaaggtg ttctttgcct ctgttcggtc tggtggcagc   3480
agtcaggttt atttcatgac cttaggcagg acttctcttc tgagctggta gaagcagtgt   3540
gatccaggga ttactggcct ccagagtctt caagatcctg agaacttgga attccttgta   3600
actggagctc ggagctgcac cgagggcaac caggacagct gtgtgtgcag acctcatgtg   3660
ttgggttctc tcccctcctt cctgttcctc ttatatacca gtttatcccc attctttttt   3720
```

1676

```
tttttcttac tccaaaataa atcaaggctg caatgcagct ggggctgttc aaattctacc   3780
atcaggtgct ataagtgttt gggattgagc atcatactgg aaagcaaaca cctttcctcc   3840
agctccagaa ttccttgtct ctgaatgact ctgtcttgtg ggtgtctgac agtggcgacg   3900
atgaacatgc cgttggtttt attggcagtg ggcacaagga ggtgagaagt ggtggtaaaa   3960
ggagcagagt gctgaagcag agagcagatt taatatagta acattaacag tgtatttaat   4020
tgacatttct tttttgtaat gtgacgatat gtggacaaag aagaagatgc aggtttaaga   4080
agttaatatt tataaaatgt gaaagacaca gttactagga taactttttt gtgggtgggg   4140
cttgggagat ggggtggggt gggttaaggg gccccatttt gtttctttgg atttggggtg   4200
ggggtcctgg ccaagaactc agtcattttt ctgtgtacca ggttgcctaa atcatgtgca   4260
gatggttcta aaaaaaaaa                                                4279
```

```
    <400> 2858
ggcacgagac tcatcagcca attcacacag gagagagacc ctatgatgca atgaaggtca     60
acaagctttc acccaaaaga caggtctcag taagcatcga aaaacttgcc atgcaagaat    120
gaaatcttat ggatacagtg gatgtgggaa ggttttgtcc tgtaagtcaa ctctcattat    180
ataacagaga acctatacag gtgagaaact cctcaaatgt agcatgtgta ataaagccat    240
catagttaaa tcctgtctca ctgtacatta gagaattcat acaggagaga aaccatataa    300
atgcagtgat tgtaagaaag cattcgctac tttgtaaact g                        341
```

```
    <400> 2859
ggcacgagat taccattcag gagaaaacct ctacttgccc tgcttcgcgg actctaaccc     60
```

```
accagcagaa tattcttgga caattaacgg gaagtttcag ctatcaggac aaaagctctt    120
tatcccccac attactacac accatactgg ccctcccccc gctctgatcg caactcaccc    180
actggcatgc aaagctccaa attcatgaca gtcaacgcct ctgctccttc acgaccatga    240
catcttcctg gccttaatcc attatagtac ccgtgacccc ctctctcgct tcatgaata     300
ctgccccaca gccgctttca ctcttcctcc aaccg                                335




    <210> 2860
    <211> 1391
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (1389)...(270)
    <223> similar to gi1262142 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters




    <400> 2860
tttttttttt ttttacaact gaagagaaag ttcctatta ttctcaaatg ccctgactaa     60
actgctcaaa agcagtttat attttcaaac caatgtcatg tcctcaacat aaagttcaaa    120
ttcatttact gtccatgaca cttaagcatc cagatcaata aattacaata cacatattct    180
gtaagagtct tttataccaa gaagcaatgt ttttggtctt cggcagtgac atttcctccc    240
cattcaccac acaaacgcag gaagctctcg taacatgagg acaccaaagc gctgccactc    300
tcgctgataa atccacagtt cctgtgttgt atccaaacaa gccaacactg cccctccttt    360
ccatgcaatc agccgggggt ccatgtcctt taggcctttg gatcacatcc acattttcaa    420
ataatcggcc tgaagggatg gtgggcattt tgttgagaat tctgtgctgc aaaaaattct    480
tgaagcttta atgaaaacat caaaccacct cccaccacta ggatgtagct gtacatcttc    540
ttttggtgt cgtcagatga acagcagtct atgctatgga ggatggcttt atccaggccc     600
agggctttc cttcaaacag cgagatggca gtcttcctgg acatcagtgc agtgagggcc     660
tcctcggaat cgttgccggc catcaggcca tctccctgtg cagaccccaa atctacctcc    720
tgggaatgga gtctttctgg aagatcagag gactggccac gaagatcccc ttcaaatcca    780
ataggtttgg atgcagactt cggtcagca gtagcttttg cagactgttc ttgtttgctc    840
tgtgtggcca gcaggtaatg ttcatcgtga ggatcctcag gatcgccctg agatctgtgc    900
tgcaaagtcg tcattttctg tccaacgatt ccaaaagttg cggggtaaaa caaagccatt    960
ggagcctgca gttttcatc tcctaatcga aactggtaaa gcagggcagg agaatcagga   1020
tgtcgaatct gaaactcatg gtcctgaagc ccagagatgt cctgatctaa atgacaaaaa   1080
gtttctttaa ggtgttgcag aagaagacaa tccatttat ttgttaactg gcattctctg   1140
taagggaacc cagctcgctg cattagccag taaaaacatc ttgacacatc agatcctccg   1200
tatgccagac aaagccgagt attccgatga gacaccccat cctccacaca gcatacactt   1260
gtcttctggt ccccaacgtc tacaatacac gtgctgctta agccacttcc ataggtggca   1320
cacacagact cctgatggac cacaatccct gaaaaaccca tcttcattag tatcatattc   1380
actctcgtgc c                                                       1391




    <210> 2861
    <211> 3111
    <212> DNA
```

1678

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3112)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3113)...(55)
<223> similar to gi2887497 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2861
```
tttttttttt ttcaaagctg tcacgtttat tcgcttaaaa tacctaagtc ctcagaagca      60
gcagggctgc tngtggaggg gctgcgccct cagtgccccc gtgccttcct ccgcacggcc     120
tgcaccagca gctccgagta gtgttccagc agggcctgca ggtctgggct ggccaggggg     180
tacagcgtcg gtgtggacgg gggtcctggg ctggtcagag cctgggctgg ggccacacta     240
gtccccacca ggcattcagc ctccagctgg ctgtggatcc acaggaaggt ggagaccagc     300
tcagtccgtg cctgctgctg cccggtgtcc acctggccac tggagaccaa cacacggtaa     360
aggtcgaggg cttcttggaa ggtggtctgc agcctgtgca agatgttccc cacccggagg     420
tgggctccag gagggaggca gtgccgccag ggatgccagg ccgggcctct ggaagctggg     480
ggttactggg gtgggcagga aggccagggg actcaggagc tgggagactt gggcgaaagg     540
cagagccgtg gagcctcagg gcgctctctt ccacagggct aggggctggg aagctcactg     600
cagggacggt gacgccaggc tgggtatcca cggggggcag caggagccca tcacaggcac     660
ttgacagggt cagtctcagg ttggcccggg cctcgtggtt gccccaggaa cgcagggcag     720
gctcttggcc ctcactgtcc aaactgggtg ttgtcgcggt ggtgatggcc tgaagctcct     780
ggcccaagga ggccagctcc ccaacggacg atggcctacg gaggggctgg gccagtgtgg     840
ccacgatagg gccctcactg tcaccgaggg agatgctgcg tgatatcctg gcacgggagc     900
tggcagtggc ctccatgtag gaacaggtgg aggggcatg gacaccctga gccaggcctg     960
gggtgggtgc agatgtgggc gttgggagat tccctgtctg ctgggcagac acggaggaag    1020
cagggacaca ggacgccagg ctcgtaaggc agggaggtgg tgggcgccag gcctccaggg    1080
tctcttcagc cttccctgca gcgaggacgt gggtcctgtc tggggaggcg tagccagtac    1140
ctgctctggg ctggcttccg cctcggtcca tgagcttgac ctctggagac ttcacaaggc    1200
actgggttgc ccggggaggg aaggtatggg tgaacctgga tgccttctgg aggcttgaga    1260
ggaactgcgt ggagatactc aggcgtgggt tgaagaagtg gtcttcagct tcagaggcct    1320
ccacgtctcc cagagctctg caggggact cagtcagtgt ctcaaagtgg tggcggagga    1380
acttctcctg ctccggagtc tggggtaggg agctgctggg gacgctgggt ccctcgggca    1440
gggacagctc atcttctgtg ggaccctcag gcgggctctg gtcctttggg ctgtcggagg    1500
acaccctgag gtaggagtcg ccctgctggt ctccaggccc ggcctccacc tccttcctgc    1560
aatactggct gtctgtccct gtgactgtca cttctgcctc cagagagtag aggatgagct    1620
cactggcctc agatgattcc ttctgctcac tcagcaggct ggccaggctc tgtggctcca    1680
gtgaatccag aatggagttc tccagactct cgggcttcat gggggtaaag tagcaatcca    1740
ggtcctgggc atccaggatg gtcttgaggg gctcttggcc ggcccgctct gcccagcggc    1800
cgtgggggctg gtagctgcgc ttggcgtgga aggccaagcc atctgccaca tcatcgtccc    1860
ctagcagccg ctttgcccac agtggcagct tgccgttggt tagcaggcaa cgaggattgt    1920
gtccccagca tcactccatg gggccctggc agggactcat ccctctggtg gacaggcagg    1980
ggctgccagg acctggggtg gccactccgc ttcttgtcat ttgtgtgctg ctgctgctgc    2040
cggtggtcaa tctccagcaa gtgctgcttc atgcagttgg tgatctccgg gcccaggtgc    2100
cagatgaaca cgcagctgtc tccagatact gtgatcaagt gatgacagtc ataggtgaac    2160
ttcatgctgg taataatttc tgcaaacaaa gcagagaggc tgcacttgcc ttcggagtca    2220
gagggtgtgg gcgggtgggg aggcatccca agcagagagg cacacccacc tgaatggcca    2280
aacatcttgg caatgcactc gcccgagtaa aagtcaatca ctgagatgct tttgtcagag    2340
cagctggtgg ccaggaaggt gcctgagggg tccacatgga ccttcagcaa ggacccttcg    2400
```

                                    1679

```
tcaccctggg agcccttgta gcacttcttc tgcttcccgt tcacagtgtt gtagactctc   2460
acattgcggt cctggcaggc cacggccacg tacttctggg tgatgtcaat gtccatgtca   2520
tacaaggtgg ttttctctgc tacgtggtgg gtacggacaa agtgtagtcc atccgaaccc   2580
tgctgggcac tgcgaaagta gatgctcttg tcagccccac agctgatcat ctggatgtct   2640
ctgttgccag cgaacttgat ggcggtgatg gaggaggagt ggtcatccag cgtctgctcc   2700
aggttgtagt tcttctccac gttcagcaca tggatcagcc ggtcccgact ggctgaggcc   2760
agcaaggtca gccctgtctc tggcttggag tactccaggc acagcacctc agcatcatgg   2820
gcctccacct tgaccagctc gtccatgaag tgcagctcgt ggatcagccc ctcattccca   2880
atgggcagca ggaggtgcca aggccagggc ttctgcccac tgccctgaga acctgagctg   2940
gagctgggag gtgtacactg gacactgcca gggcccactt gcctcagatt tccacttcgg   3000
tcgcctgaag ccaaatgctg gccgtcagga ctgacctgca tgacccgcac cccggctttc   3060
acgtccatgg gtgtcccatt ctcgctcccc cggtctggga agtgtgacat t            3111
```

<210> 2862
<211> 2849
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (170)...(2300)
<223> similar to gi2702418 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2862
```
gggccgcgca aggacccgct gcggcacctg cgcacgcgag agaagcgcgg accgtcgggg     60
tgctccggcg gccccaaaac accgttgtaa cctgacaagg tggtggcaaa cggggtaagc    120
cgggaactcg gggcgccgcg ctcctacgtc ttctcccgag ttcaaccggt atctcttcaa    180
ctgtggagaa ggcgttcaga gactcatgca ggagcacaag ttaaaggttg ctcgcctgga    240
caacatattc ctgacacgaa tgcactggtc taatgttggg ggcttaagtg gaatgattct    300
tactttaaag gaaaccgggc ttccaaagtg tgtactttct ggacctccac aactggaaaa    360
atacctcgaa gcaatcaaaa tattttctgg tccattgaaa ggaatagaac tggctgtgcg    420
gccccactct gccccagaat acgaggatga aaccatgaca gtttaccaga tccccataca    480
cagtgaacag aggaggggaa agcaccaacc atggcagagt ccagaaaggc ctctcagcag    540
gctcagtcca gagcgatctt cagactccga gtcgaatgaa aatgagccac accttccaca    600
tggtgttagc cagagaagag gggtcaggga ctcttccctg gtcgtagctt tcatctgtaa    660
gcttcactta aagagaggaa acttcttggt gctcaaagca aaggagatgg gcctcccagt    720
tgggacagct gccatcgctc ccatcattgc tgctgtcaag gacgggaaaa gcatcactca    780
tgaaggaaga gagatttttgg ctgaagagct gtgtactcct ccagatcctg gtgctgcttt    840
tgtggtggta gaatgtccag atgaaagctt cattcaaccc atctgtgaga atgccacctt    900
tcagaggtac caaggaaagg cagatgcccc cgtggccttg gtggttcaca tggccccagc     960
atctgtgctt gtggacagca ggtaccagca gtggatggag aggtttgggc ctgacaccca   1020
gcacttggtc ctgaatgaga actgtgcctc agttcacaac cttcgcagcc acaagattca   1080
aacccagctc aacctcatcc acccggacat cttccccctg ctcaccagtt ccgctgtaa    1140
gaaggagggc cccaccctca gtgtgcccat ggttcagggt gaatgcctcc tcaagtacca   1200
gctccgtccc aggagggagt ggcagaggga tgccattatt acttgcaatc ctgaggaatt   1260
catagttgag gcgctgcagc ttcccaactt ccagcagagc gttgcaggag tacaggagga   1320
gtgcgcagga cggcccagcc ccagcagaga aaagaagtca gtacccagaa atcatcttcc   1380
ttggaacagg gtctgccatc ccgatgaaga ttcgaaaatg tcagtgccac acttgtcaaa   1440
cataagcccc gacacgtctc tgctactgga ctgtggtgag ggcacatttg ggcagctgtg   1500
```
```

```
ccgttcatta cggagaccag ggtggacagg gtcctggggc accctgggct tgctgtgttt   1560
gtgttccacc tgcacggcag attcaccaca cgggcttgcc aagtatcttg ctgcagagag   1620
aacgcgcctt ggcatctttg ggaaagccgc ttcacccttt gctggtggtt gcccccaacc   1680
agctcaaagc ctggctccag cagtaccaca accagtgcca ggaggtcctg caccacatca   1740
gtatgattcc tgccaaatgc cttcaggaag gggctgagat ctccagtcct gcagtggaaa   1800
gattgatcag ttcgctgttg cgaacatgtg atttggaaga gtttcagacc tgtctggtgc   1860
ggcactgcaa gcatgcgttt ggctgtgcgc tggtgcacac ctctggctgg aaagtggtct   1920
attccgggga caccatgccc tgcgaggctc tggtccggat ggggaaagat gccaccctcc   1980
tgatacatga agccaccctg gaagatggtt tggaagagga agcagtggaa aagacacaca   2040
gcacaacgtc ccaagccatc agcgtgggga tgcggatgaa cgcggagttc attatgctga   2100
accacttcag ccagcgctat gccaaggtcc ccctcttcag ccccaacttc agcgagaaag   2160
tgggagttgc ctttgaccac atgaaggtct gctttggaga ctttccaaca atgcccaagc   2220
tgattccccc actgaaagcc ctgtttgctg gcgacatcga ggagatggag gagcgcaggg   2280
agaagcggga gctgcggcag gtgcgggcgg ccctcctgtc cagggagctg gcaggcggcc   2340
tggaggatgg ggagcctcag cagaagcggg cccacacaga ggagccacag gccaagaagg   2400
tcagagccca gtgaagatct gggagaccct gaactcagaa ggctgtgtgt cttctgcccc   2460
acgcacgcac ccgtatctgc cctccttgct ggtagaagct gaagagcacg gtcccccagg   2520
aggcagctca ggataggtgg tatggagctg tgccgaggct tgggctccca cataagcact   2580
agtctataga tgcctcttag gactggtgcc tggcacagcc gcgggccagg aggctgccac   2640
acggaagcaa gcagatgaac taatttcatt tcaaggcagt ttttaaagaa gtcatggaaa   2700
cagacggcgg cacctttcct ctaatccagc aaagtgattc cctgcacacc agagacaagc   2760
agagtaacag gatcagtggg tctaagtgtc cgagacttaa cgaaaatagt atttcagctg   2820
caataaagat tgagtttgca aaaaaaaaa                                      2849
```

<210> 2863
<211> 1920
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1898)...(1868)
<223> similar to gi1177607 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2863
```
ggcacgagga gaaggctgcc agtagaggaa aggggaagaa ttcccagggc gaggaaaaca     60
cataagcctt tgcgtgtgga gctgtgtaaa ttcaaggtct ggccaggggg ctgtgagatg    120
ccgtgtgtgc ttggagcaca ggaatgagaa gtgaggtgag gaagtggctg ggccacctca    180
caaagggcct caaattctag gctgagaaac tcggacttgg tcctgagggt aaaggggggcc    240
gggagaatgt tatgcatggt gctgaagttg cattcaacac agctgtgaga agcatctgtc    300
agggtcaggc cagtgtggga ggggaactgg aggccagggt accagatatg gtggtccagg    360
tgagaaggaa ggggccagaa cttggcttgg agaacggagg tcagtgccct caggggggtgg    420
aggtgatgga acttggtgct tgtctggctt tggggagtga gggagtgggt ggaaatgggg    480
acgtccaaag ttctagatgg tgtggcaaga attttgtcta gatggggtgg cttcctcatg    540
atcatgtctt ggggttgagc aggggttctc tttggtgggg agctgggtag ggaggtaatg    600
cttcactttt ggatggggcg atcaaattca ttcatgtatt cattcaacca atatcgaatt    660
gattccttac cctttcctga aagacctttg atagattctg agggtagaat gttgaccagg    720
atggagctgg gccttggaga gtggggaagg caggcagtaa cacagcaggc agtagatcaa    780
cgaggccata tcatggattg tgctgtggga tgtgaaggaa atgaacagac ggaggacgca    840
```

```
gagcagggca cctcgagcta ccacggtcac taaaagctgc tatgaccaag tgttctgtga      900
gctgaaacct gaaggccagg aaggagtcac tcttgtgagg ggctgaaagg aacatcacag      960
agaggggagg agctagcaca aaagctctcc agatgggaga ggctggtgca ctgggcaagg     1020
gaaagccagc accatggtgc ccagaaggga aggcagctgg ggggccagtc tacgcagggc     1080
cttgcagagt gtctgggttt actctaaggg cagaggggaa ggttttgatc ataacgcact     1140
gcagtctgaa actcctgggc tcaggcaatc ctgtctcagc ttcctgggta gttgggactg     1200
taggcaggca ccaccacctc tgcctaatta ttattatcat ttttttttgga gagacagggt     1260
ctcaatatgt tgctgtgtct cagaggggaa ggtttttaagt cagggaatga ttctgtgagc     1320
ttaaaaaatc acttggaaat tgccataggg aagggaggga gaaggccagg catggtggct     1380
catgcctata atcccaggac tttgggaggc tgaggcaggc ggatcgcttg aggccaggag     1440
ttcgagacca gtctgggcaa cagggtgaaa ccctgtctct tctaaaatta caaaaaatta     1500
gccggccatg gtggtgcgcg cctgtagtcc cagctactca ggaggctgag gcgggagaat     1560
cgcttgaacc tgggaggtgg aggctgcagt gagctgagat catgccactg tactcaagcc     1620
tgggcgacag agtgagactc tgtctgaaaa aagacacagc aacaaaaaaa acgagagggg     1680
agggagagag tgatggaggc ggaggctgct gctgctataa gctgggcgta agtggtggtg     1740
gtttgcgctg gggtggcagc ggcgatggtg ggattacagg gaagtgtgtg gcttgctgac     1800
aggggtcatg tgcactgacc cggtgtgggc agaggcaggt gctatcctgg ccatcccgcc     1860
tgcggatgtg tgacctcagg ccaatcacac gatctctttg agctctgctt ccctcatctg     1920


        <210> 2864
        <211> 642
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (376)...(352)
        <223> similar to gi1381091 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters



        <400> 2864
tttcggtgtg gctggctcat ttatttaggc aaaaccatca gccaggtgca gaatgcttgg       60
gtgcatatgt gggtatgagg gtaggtatga ggtgcaaggc cccacccatt cttcgaggtt      120
ctctcgcctg ccagcccctg cccctgccct ttcctcaagt ctgggccctc ctcccgtgct      180
tttcctgcct cttcccccca ccccgcgcct cagcctcagc caggagccgc gcacgcagct      240
actcactctt cctgtgcctc aggactctca cttctaggga ccaagaggag agaagtgaca      300
gcggagttag gaggggaaagg gggccaggat gagactggga cagcaggga cagggagcgg      360
gccagggaga gcggcgggg gggaagtgga gaagagagga ggagctttc tgcccatctg      420
accctggctc aggctgctct ggggccccat gagggtggtc catcgagttc ctggcttggc      480
tggtgcccct gagggctggg cagggccacc actggctcta gccctagca agggcctcca      540
ccttggcact gggttggggt agggcaccca gccctggctg tgctgggtga gggtgtctcg      600
ggaagcccag agtatgtttt tctctgccct tagcctcgtg cc                       642



        <210> 2865
        <211> 585
        <212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (573)...(58)
<223> similar to gi5106779 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2865
tttttttttt ttaggcattc aggctcttta atgtctgagg atgggggaa gaagtcaatg   60
gtgaggcttc tctgggaaat tctgcaggcc ttgtagttct ctaagcccct ctagcaacat   120
gtggatatgg gctttgatat tcatggagtc cttggtgagg ctgttgctga gccttatgaa   180
aacctatgag ttcaacatct gtgaggagag agctcttacg atcaatgaac ttgagagctt   240
ctgccagtgt caactccagg aaaaaaccat atcccagggc cacatagatg cgtgaagtat   300
ctgggaccac tgtgtcaacg aagaagttac agcccaaatc cacctgcata tataactccg   360
agtgcttagc ttcctggagt cgctcaatga catttctcag ttgaaggtat ttggccagct   420
gctcatatac cttgtctcga tggtccagca cctttcgcaa gtcccgctgc agcacgtcac   480
tgatgaaggt ctcgtagcgc agcactttct cccccgtggc ctccaccgcc cgccgcttag   540
ggggcgtcgc catgatgggc tcctcaggcc gccagcaata agaac   585

<210> 2866
<211> 1606
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1598)...(228)
<223> similar to gi1575333 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2866
tttttttttt ttcgtatttc aagggttttt attctgagca gtaggtacaa aaaataatga   60
catagttgtg tctaattctg tatagttcag gcaccctcca caggctgtca atctctgatt   120
tgatctactt ttaccagatt taacagatcc ttgaatttac tttactgtat atacttcctt   180
cttgctcaca ttgggaatca aactaatgct ggaaacatgc atcttcagac ttcattgagg   240
aattccagat tgagacacgc tgggatgtgg attgagtcca tggttagaga agatggatta   300
aatggaaaca aaacaggaaa catgtgcttg gcatctaata gcagttgctg agggtcattc   360
cgctcttgta gttgtgcctg gattgttcgt ataaaggcca ctgttacccg ttcttcaaat   420
tcattcaggg gagtataaag gtttaaaatt ttgacaatct gctgggtgct gagggaggta   480
cacagggagc agatagcctc tgcgtcctcc tgggtttttct tctttaattg caggagctgg   540
gctgcttgga tcagaggttc catggtctga actgctccac tctggtgaag gtttcttccc   600
cgaagccact cctcaagctg acttatattg tacctgagtt gcatgcctgt gctccaagag   660
cagacgtcct tccgcaggag caggtcatta agagtcactg cgttgatcat gtagaagagc   720
tgtttgaata cctgcaggat gatctcaggg tccaagccct ggtcacacat gactgtatga   780
aaggcattca tctggcggat gatagcttcc aggcggtatg agttatcctc atctgccatg   840
ctggaggagt gcttctggga gccagtgggc ttcacaccag atagaccctg aatgctctaa   900

```
ttttccaaca tggcagaaac tatcatcggc tgtaacacac cctcggcaat tttaatgagc    960
tgctggtaga tctgaatgga aaggtcacgt caggcacctg acggtattcg gtgaggtcaa   1020
aattcttaag acagtgttca attctgcttt gcagtgttct gagtcatgaa gccctcatcc   1080
ccgctgtact gcttcagaca gtgaagaagg cgggcaggtg ttggataacc agaatgacgt   1140
catctcaaag tcatcattgt gctttttcag gactttctta atgccgttga tggtggaggt   1200
cagcagggag tgcaccttga gatcgtcgtt ggtgtagtcc cgcgtgccgg atgcacatgt  ·1260
agaggatgta ggcggggaga caggcactg tgcccgacag catctggggc ttcaagtctg   1320
tcaccaggtt ccggatgagg agggcctcgt cctctttgtg gtactccagc atgccctgga   1380
aatccttctc tttccgctgg accgtgacct gcctgttgag ctcatggcgc ttcctctcac   1440
tctgggccaa tgcctgggca gcttctaggt cctgggcttt cttcatgtaa atcttcagtt   1500
gctttttgag cttcctctca ttcttttcca ·gcttttctac cagttcttta aggtccagat   1560
tctcgttggt cagccgggat atttcctgct gaacgccgct cgtgcc            .  .   1606
```

```
        <400> 2867
actgagatcg tgccattgca cttcaggcca ggcaacagtg caagactccg tttcaaaaaa     60
aaaagaacat aaaccaagca ttttttaatc tcttaccacc tcaggttcag actagacaga    120
taaaaaattc cctgggtgga ctctaagaac ctacatttgc aaaacaacat ttattctttt    180
aaaaaatcta tatacattgc catacaaaga taccacattg aagcagttct caggaacctt    240
ccagtgagcc ttctcttata attgcccgag caagatttcg tgccagagaa agtctcagca    300
tttccacctt ggtggtctct atgtcatcat cctggagctg ctcggtatca gattctccat    360
gcacaggtct tcttgacgtc aagtcctcca gacaccgcat caactcataa gtctgttctg    420
·ctgagaaaat cacctgtttc tgttccaaaa ggggcaaggc atctgtcagc agagtcatcc    480
agaaagaccg aggggcaatc cgagacgtca tcaaggacag aaggagagaa gctgcgtcgg    540
caaaacgctt ctccccgtac atacggtgga actcgcgata ctttcccagg aatgtcagtc    600
ggtcactgag catcatggct ggccccaggt tgtcaatgag atccaaatca gaaaagcagc    660
ctcgctcaca gtaatccctg aggaacctgt ctgacacgag cgtggcaaag gcggcatcct    720
tagcacggat gctccaagag agggcagaac ccaggcgatt gttgcggacg gctttcatgg    780
ctaagatctt acaaatgctg cgaacttgtt cagtcatctg ccgctgctca cagatccgca    840
gcaccttcag ggctttctgc tcggtgttca gaggtatccg ctcaatgtgc agctccaggg   900 ·
agactcggcc cagctcgggg cagtaatcaa agtaatcgac ccccagctgc cacaggctgg    960
gatgagcaaa cagtcccgag gcgtactcca gcaggaggaa ctctctcatg ttggaaccga   1020
·aatagaggtt gtgtgactgg aggagcttgc agtggtccag caggtctgtc aggtgggcca   1080
caaaccacca gttgctcagg gcgatgcttt tagctcgata cttttggagg acttgaaggg   1140·
caccaggaaa ctgccgacat cttgcccaac tcccagtgaa gtgcacccca gctgtttcct   1200
cttgccagac agcaaggaac tggcccgtct tcagaggaag ctgtaagcca ggagggaaga   1260
agggaccctg tggaggactc ctgccatctc tcgtgcc                             1297
```

1684

<210> 2868
<211> 1059
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (709)...(571)
<223> similar to gi2995384 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2868
```
tcccctcctc ccgcccacgc cccgctcccc gccccggag ccccgcggac gctacgccgc      60
gacgagtagg agggccgctg cggtgagcct tgaagcctat ggctttgggc ccgggtggga     120
gccgccgcag gtgcatgatc ttggtgtgta gtagcaaata ttcaaacgag aactttgaag     180
gcctgaagtg gagaagggtt ccatgtgaac agcagttgaa catgggtcag tcggtcctga     240
gagatgggcg agcgccgttc cgaagggacg ggcgatggcc tccgttgccc tcggccgatc     300
gaaagggagt cgggttcaga tccccgaatc cggagtggcg gagatgggcg ccgcgaggcg     360
tccagtgcgg taacgcgacc gatcccggag aagccggcgg gagccccggg gagagttctc     420
ttttctttgt gaagggcagg gcgccctgga atgggttcgc cccgagagag gggcccgtgc     480
cttggaaagc gtcgcggttc cggcggcgtc cggtgagctc tcgctggccc ttgaaaatcc     540
gggggagagg gtgtaaatct cgcgccgggc cgtacccata tccgcagcag gtctccaagg     600
tgaacagcct ctggcatgtt ggaacaatgt aggtaaggga agtcggcaag ccggatccgt     660
aacttcggga taaggattgg ctctaagggc tgggtcggtc gggctggggc gcagagacaa     720
ctgcaaggct tctaatggcc aatgctggaa caatgacagc aaggaataaa taaagtgata     780
tttaattata acccaaagca tactacagct gttcatgatc ccatactgac ataaataaat     840
tgttgaataa attaataaat ggagaagaaa caaaccttcc aggcagaaga attccaaata     900
atgtatgtag atgctgcaca ctgagagaga taaagcatag ctccccactc ctaagtgtgg     960
gctacacata gtcactttct gctcaagagt acaggatgga aaaaaggaaa aaaagagtaa    1020
cattccaatc acctgcacca ttcaggtgat cgaggtcct                          1059
```


<210> 2869
<211> 1386
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1377)...(472)
<223> similar to gi2887431 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2869
```
ttttacaaca caagaaatgg tactgaatat atttgttaca tcctgaatca acccaataga      60
cggatcttgt aaacaaaata gtaaggtaac acttcaaaaa cagatgaaca atttatccac     120
```

1685

```
caagaatgta tatagtaagc caaaagctca ctgtggaaat acacttagca tggttattag    180
aaaatcacaa agagtaatgt aacaagttac caaattttat ggtcatgttc tgcttgataa    240
ttcaaatagg atggatggta gttacctagt tttctaattt tgtgttgttt taacatctcc    300
attgattttt aatgctttat tttttatttg aatttgctgg ctggcaggtt tgctttgctt    360
aatacattga ctgcaacacg cttattgttg tgttggtaga ataagacata cgagaatata    420
tatagaaagg ccatatggag gtttccatgg aaagattctg atactccata actctgctgt    480
tcagaatttc agctgattgc ctgtagttgg tgcagcgaac ggaacgctgg tggcaggtgt    540
tgttgctgca gacacagtgg taggtgtagc accgtgcatc atgggcacaa tatttgaagc    600
gggtgccatg cacagtattg gccctgcagg gataaatgcc ggctgtggga gctgcaggtt    660
agtcagagcc tgttggcagt ggaaaacagt gggattaaag accggggtgg caccattggg    720
cttttccagt gctgatctct ttggtatcag ttgcagtgta ccaggctgca gggccatggc    780
agaggcagct gaatggttca tctgatgatg agctgccttg agtctggctt gcaagtgtgc    840
aggaggatga aagtacttgc atttctcccg cgagcatcga cctttgatgt aatccatgca    900
gattgtcaca gtattatcac tcgcttcaat catggaagca tcagtagggt gagcatagcg    960
gcaatcattc tcccccacgg gtacaatttc cacgctgaaa ttctcggcaa acctccagtt   1020
tatctgaacg catcagtttt gggccaacag ctcctggcat tgcaagaggt gggtttccag   1080
gaatcagaac aggtgtattt ggtacaagtt ctgcaggaac gaggcccatc ccaggatgtg   1140
gtatgtaagg attgaaagcc atgggaggat tagctggaat tgatggagtc ataggaaaag   1200
aaccaagtga tgacatttga gcgttttgga gcataagctg catctgctgg gcgaacatgg   1260
ctgcggcagt cttctgttga atcagattgt tccgcccatt aatctccagc tgcgtttta   1320
agtgtggagg agggtgaagg tacttgcagt tctctcgggt acaccgaccc tgatcccacg   1380
cgtccg                                                              1386


        <210> 2870
        <211> 875
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (43)...(660)
        <223> similar to gi2842510 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters



        <400> 2870
ggcacgagcg acgctggtca gaaacatttt ggggctactg tgtgcaagtc ttgtggtatg     60
atatatactg cttccaaccc tgaagatgaa atgcagcatg tacagcatca ccacaggttt    120
ctggaaggaa tcaaatatgt gggttggaag aaagaacgtg tagtagcaga gttttgggat    180
gggaaaatcg tgttggttct gccacatgat ccaagctttg ctatcaaaaa ggtagaagat    240
gtccaagaac ttgttgataa tgaattgggc ttccagcaag ttgttcctaa atgtccaaac    300
aaaataaaaa cttttctttt tatatctgat gaaagagag tagttgggtg tttaattgca    360
gaacccatca aacaggcatt tcgtgtcctg tctgaaccaa ttggtccaga atccccaagc    420
tctacggaat gtcctagggc ttggcaatgt tcagatgtac cagaacctgc agtctgtggg    480
ataagtagaa tctgggtttt cagactgaag agaagaaagc gcattgcaag acgactggtt    540
gataccctca ggaattgctt catgtttggc tgtttttctca gcactgatga aatagcattt    600
tctgacccaa caccagatgg caagttattt gcaaccaagt actgcaacac ccctaatttc    660
ctcgtatata attttaatag ttaaagctga tttcagttat aaaggagtta ctatctggat    720
aagttcaaag agctccttat tataaaatac aaactattta ataaatatca aaataaaaaa    780
tacccgagac tcacactcat acacacacac acacacacac acacacacac atatcacagt    840
tttggttcct tatgagttga aaagtcagga ataaa                              875
```

<210> 2871
<211> 1519
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1520)...(293)
<223> similar to gi3876636 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2871
```
tttttttttt ttgagctttt gatcatttta ttcacaaaat ataagcgaga cttacatccc      60
tttctggtga aagttttcaa ataattttat gggtagggcc ttgagatgta tcaattataa     120
aacatgttaa aatgaaaaca ttttttaaat ttacaaatac aaaccaatac tttatacaag     180
aattctctat aaagttcgtc aaagtaaaaa ataatttgtt tcaactgaat ataaggcatg     240
tccagtttat gtcattttgt agaattattt ttgttttgct ggagactttt ctcttcgccg     300
gtcctgattt ttctttgatt ctctggattg ttcagagtat ctgctagatt tttcccatcg     360
tctctcggca ccatttgat atctatcttc atcacttctt gagcctgagt gctttctatt     420
catttccttt gactttgatc tatcttttct tctgaaattt tcactgtctt taattcggtg     480
tgtatgcttc tcattttcag aaaaagaatt tcttctctct cctctcttct ttttgggatc     540
accatgctta ttttccaaat ctatatgcat ttcttggtct ctgtcattcg caactctact     600
gtagttattt cgttcagaag gaacatcttt gtctgatgtg tactttgtta taggatctct     660
ccaatttgaa ccacttgaat tttgatctct gtgtttttct gaccttcttt ctctctcagt     720
ccttgtttcc tggtgcccgt gttcttgtct tctttctttt tgtttcctat catttgtttg     780
ctggtttctg atcaatttat ctacctcttt acttctggtc ttcccatgtc ccttctttct     840
tacatcatta gctgaggcag agctatgact actgatggat gaagagtcgc tctcttcact     900
ggaagactct gaactgctat cactgctgtc agaatcagag tcggatgagt cagactctga     960
agaggaggac gctgaagagg aagaggatgg ggaggattta ttttgctcaa catctggttt    1020
ctgcgccaca atgacctttg gtgtattttt gagatgctcc cgcagttcat ccgttaaacc    1080
tccaagacct atagaagtaa agaagttgat ggcaaaccga gtgtttcttg gattatctcg    1140
gggtaataat ccttcaaaga atggctgcag agtttcatcc tttaatcttg cattaagttt    1200
aggaagaccc atgtattcac acagttcctg gaaaaatatt ttgacaaaaa ttctactgga    1260
tgatgtagtg gtttcttcac tcagttttat acattcaaga acactccatg gaagtgaatc    1320
agtgtataaa aggtgagcaa acatcttagc aacatttcgc aacttgtttg tttccaagcg    1380
atggatggta tcatactgtt ctttgaatat accttcaaag gattccatgt actcctttct    1440
ttagcatgca aaatccgccc cagctattaa gccaaaaaat tttcgtatgt ctttggtggg    1500
cacaacaatc aagattcat                                                 1519
```


<210> 2872
<211> 338
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (331)...(105)
<223> similar to gi31725 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2872
ggcacgagct ggaagaataa ttaaagatct ttttttgggt tttttttggg gggcctttag   60
caaaaaaaat taattattgg atggctggca aaaaaaaccc tatccttgaa ggcttggcat   120
aagggccagg gacctaaggg gaatcggggg gacggggcat gggccactcc agcccccatt   180
tttggccaga aacccggccc ctaggggggga aattttttgcc.caaagggctt ggcaaaaccg   240
gccacaaccc ctttaccagg gacctgaaag tcttagggta ccactggccc cttgacacca   300
tgcagtgact caggggggaa aacggccccc cgaaactc   338

<210> 2873
<211> 5533
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(5534)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (5535)...(3751)
<223> similar to gi5689507 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2873
tttttttttt.ttctttgaat gtttactaag cagtcagaag gtgacttact ccattccccc   60
aagttccaag ncccctgagc atagaggggt ttaaggggtt agggaggagt accacaggac   120
tgaagaggaa gtagagttaa gggcttggca agttgcccac tcctatccct cggtctagct   180
gcctcagaac taaaggaggc ctggaactaa caagtcactc cccttcccag attaagatga   240
agccagctgg cctttggatg cccccaggga agaggtggtg gcagcagtgg catgagggat   300
ccctctgtaa ctcccacatg cccaggtcat ctgcactgga ttagatgtcc atttcaaatt   360
gtgcgtcatc gggtatctct tccctctgtc tcctgctcct ttcagctcct ccagcttgga   420
gagaggggct gttgggagga gttgtgaccc cgggaatctg agggaggcag caggggggtg   480
tccgggcaat gggtgagttc ttgcactcca gcaagaacct tttcgtcgta gatgattctg   540
gtgcctctgg ttaggagagg ccaccatcgg ccgtccaatt ctcttcttcg gtctggttag   600
ctgaggtgat gggatttccc ctttgagagc agggactgaa ggaagcagac tggcctataa   660
aagggcaagt cagcacactg tagccacaat aggtttaaag ggtcttaaaa cattaataat   720
tttattggta gcggaatttt attacattga acacaagttg aaataagtgg gtccagaaac   780
cttgatgatg tagtttcatt cctatagttt catttcactg ggtttgatct ataccttagc   840
aggatgtttc ttcacaactt gaaggctcac taaagatgtg caaggtcttc ttctgcctcc   900
actaaaatct caatactggc ccccataata atggcaggat ttatttcgat tccttatcag   960
aaccaatgct aggggctctc aaatctcagc actgtaaaca atctaatggc ttcaaatatt   1020

1688

```
tccatatctt atattctcat tcacaagaag aaatcctgtg ttagaactag aagactcttg    1080
agttcaattt cagatgagaa aagtgaaacc cagaaaggtg agatgatttg cctaaggcca    1140
taaagcttca agcggcagaa atgaaaatag aatttaggct ctgactactg actactgctc    1200
cactgtatcc atgctgtctc ctcccatatc ccttgtatat tttgaaagta attaagttct    1260
tacctgagct aggtttttatc caaatgttca ggttggtaaa atagcagtaa agtagtgcca    1320
ggaagaggca ggcagaggaa gaagagattt agcaggtgaa atgaggttgg gagcaggcta    1380
ctgggatcca aatagtcaga aagaaaggaa ggaagtgctg gtaagaagga agggaggagc    1440
gtatcctaaa gaactactcc caactataca actgttgttt tcctcccaat tttcctaggg    1500
attcctcata attatctcct ttctcttcat aaattctact tactgacctg aaataaaatt    1560
tctcatttgg ttgtcctcaa ggtgcagaat atggacttaa ggctcctcca gacaattcaa    1620
atgtattgta gacagttaag atagaataaa actcaccttt ttgtcccact gaataattta    1680
tttaatatta tttctcacta gtatatattt catcaagagt agtttcattc atttcaccaa    1740
tttttaggtga ttttttcttgt tgctgttaat ggtaagtgga aacagcaaga tacacaggtg    1800
atccaaggag tcttttgtgc cccacccaac tgcccccaca aaggtcaagg ggccccttaa    1860
tgatacttga tgtggttatc aatcactaca aagtagtagc ttcaataaac aacactttca    1920
aaatccattc aaaacaaaac ataagacata agcttaatta aggaagcttt ctcatatgta    1980
agatgatata gaagattaaa gaagcaggta tatctgacac agaacaaaca tggtgtgtct    2040
gatgtggtcc tggctttagg acctgggcag agaaaattaa gaattcctgt tggcataagt    2100
gtagaaaggt gctgctaata tagttctgtc cctagttact actctttctc tgtgcatcct    2160
tctttgcctt catatgagtt ttggcttctc catcagctcc aaacatttc ttgtttttctt    2220
ttctgtattg cctatactga ccaggaaaaa ttcagctata ttaaaacaca aataagttga    2280
tgactatact tttcagtggg ataacttttc cttctctatg ctgattctcg gcatagccta    2340
tggtttggcc aaagcagccc attccagggt tcctctgttt agcttgttaa acatattgac    2400
tctccatgct tagggccatg gaactaagcc tggaattact cacatattta taaatattac    2460
tcagctgatt caataataca acagaatgac aggagtcacc tccttatgtc ccaactcata    2520
taaagcttaa aatatctata accagacaaa tctttcagat aaaaaaggtc aggaagcaca    2580
gaaggaacct gaagttgata atttgggtgt ccctacattt gtttagtgtc atctgattta    2640
aatccaattg ttcttattga cattctcatg atccatagag aaaaaaccta tcagtggcct    2700
atctgctagc taaagtcaga taagacacat tgccagagct tgaaactttc tcatatgtta    2760
aaggattatg gaagacaaca agggaacaag gaatgtttaa cacagaataa ataggtaaat    2820
agtcttaaaa gtgctttttt aaggcagtct aagaagggac tcaagtgtta aatgtgagaa    2880
gcctgttaca aatatagtat taaccatctg gttcaatata atgtggattg agtggtacct    2940
gcatgaccac tgaaaggatc acacccccact tctaaagact gttcatcttt ttattgaata    3000
ttctggtaaa tatttcacat taatacaggc tacattacgt agagccacta tatgacaaga    3060
aatttactca actttttcct tttaagtatg taaacaatta tacatgtatt tatcaccccta    3120
aaaggttcga aacatgtaat caactaattc tcttctgcat acaagtagta ttctggtatg    3180
tttagccaaa aagcactaag gtcatatgaa tcttaagttc aaaatgggct aaactaccca    3240
gagaacataa tcagggtgga taggaaatca atttggttct tatacatggg ggcaatcaaa    3300
ttttccattt gctaaaagcc tcaggggaaa atttccttaa gggcacatta aaaaaaaaaa    3360
tcccccatgg gttcttccca aggtcatagg tttcttaaac aaggctaaag agtaaagacc    3420
ttctaactta ggttgacata tttgagatgc atggttccaa tatgaggtgc ccacgtgcca    3480
ggccaaatct gaaaaggggg aggaaaaatt ggaatttcta attaggaatc tttagacagt    3540
tacaaaatga atatataaat gcaatggcaa ttcactgttt ctgcctagga agaatacaca    3600
tatattaaat aaagtgttca gtagcatcat cttgatattg aaaaagcaat ccagatcgaa    3660
atggtcaatt atgactttg atattcagta cttatacttc tcacaaaaca aaaagaatga    3720
tgtgacaaat ctaaaaaaca aaagagcatt aagcccattt tacctgctgg gcatcagtgc    3780
attcagttga attttggata acttttatca tagggttcca agcaggatct ggattgtgaa    3840
gtccattaaa cagagggcct cctggaacat cagcaagctg aggatgagag ggtattatgg    3900
tgcctccata catggaaatt ggcagacctt tagaaaaatc cacaaaacca cttgccatag    3960
gctgatgaaa aatgttagag ggggctacca ttccagaatc atctctctcc attggctgat    4020
gttgggagaa tgtgcttggg tctgataatt gttgatgcat tggatggttc cccatcacag    4080
attgcgacca acctgataag ccttctgaca cagcattgac accaaatgac cagattccac    4140
tgtgtccaac gggagcgaca aaactggtcc ccgccggggc ttgtgcaaca gaccctcctt    4200
gccgaattcg ggccagtctc tctgttccaa ttggggggagg tatctttcga tcttgactgg    4260
cactgactcc ttttggttgg cccaacgttg gtggggcaga agtggctgaa agaggtgaag    4320
atgatcccga agaaacagat ggaataggag agtcacatga gtttgaggcg cttgtccaag    4380
gatgggggaga aaaatgttgt ctgttgaaac taggagtccc aacaggagct ggcccttgca    4440
```

                        1689

```
ggaaaaccct tgttcctggt atgccggaaa aacttgccag aggagcagaa gaggaagatg    4500
gggagctgcc tgatgggtca atggatggta acccaactgg aactaattag aaactcgcct    4560
gggaaaggtg gtctgaaacc caggtgcctt tgagttatcc agggtgccat gttttccaag    4620
tgtcccaagc cactgagtta ccccaggaaa cgctgacctg aacagtgaaa gaggcatctg    4680
tagcaactcg tgaggacagt ggaccatctc cccagccctg gttagctggc acctgactac    4740
tatcaaaaag actgctgaag tgattgaaaa gtgtggctgg gccaaatgta ggtggcaaag    4800
acttatttgc tgggtttatg tgcatctgag aaccattcat aatgttcaca gctgaagaaa    4860
cgtgcactgc agctggtggg ccttgaggtg gtgttaaagt aactggattc gtaacaaaaa    4920
tagactgggg atcctggtga atagttgcat ttggtaccat ggagtaaaaa gaacctctgg    4980
gctgcattcg atcgcaaggg ggaaactcga ggtgctggta cagctaactg aggtaaatta    5040
ctggtgtcct gattatcagc agcaaccatt tctgggtgat gtcaaagtca atggagcagg    5100
ttctgagtta gatgcaaaag gcattgacat aggacttaaa tcagacacac tggatggctg    5160
tgcctcctct tgtgtgttac tggaagtagg agtgggacta ctggatgggt gagtttctgg    5220
agctcccggg gtgttgctgg cagagctact gcaactgttt gcagttgaag atggggtaca    5280
taggtttgcc atgggctggt cctgtgtgga cactttctct ttggtgggtg gcacagcaga    5340
gaaagactcc atcttttgtg aagaaagctg tgcttgagga agtacttgca ggtaggaaat    5400
gtgggtgggg agcttgcccc gcttagtgat taggtgcaga gggagacaga aggccaggga    5460
actacaagtg cttgtcacag aagaaatcac tgttgctgga ggacttgtct taggcacaca    5520
ggcaaacaac tgc                                                       5533
```

```
<400> 2874
ggcacgagga gaatactatt cttaaagctg ctgaagtgca ggtcccacca aaatgagtag     60
taacacctga agcaaaggcg tttatttgac gatgtttggc ctaccaaaag gaggactgca    120
ttgatgccca gcaactggcc tgtgaccccc tacttgctgc attatatcca aaaattggtc    180
tttgtgagta gccctgctgg ggctgctatt gcatcaacct ttggggtgtc caacagctgt    240
tcttcgaatt gagactgact ccaaggccac aaactgttca acacacacaa agtggacaaa    300
tagcatttag cagcaggttt ggaacgtaga gaatctgaat ggatctgatg aaacctgaac    360
caggtgctta ttttgttgct ttttcccat ccactgagca tgacagcatg gattctcttt    420
aaggagaaac catgggcagc tccagccagg cctcatagga aaaggcccgg catgaggttc    480
tggcgtcaat ggccactgtg tatggctgct ctgagtgagg aaaaaactaa aaagaaaaac    540
tggttccatg tactgtgaac ttgaaaacat gcagactcac gggggttcct gatgcaatgc    600
ttcagatgaa gattgtggac ttgaaaatac agactagaag gccgggcaca gtggctcatg    660
cctgtaatct cagcac                                                    676
```

<211> 1315
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1312)...(388)
<223> similar to gi4929607 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2875
```
ttttttttttt ttgaagttca tcatctttag acttaaggaa ttaacaaggg tcagggagac     60
tacaccaggc tgagggcttc ttggttcctg gagacatgcc cagctacagc aaacacaggg    120
aaacacgaag ggggcagctg gaagatttgg tcttgaactt ggggggtggg taagtgatga    180
tccccacgac tggagcagca ggaagaagtt gtgtctgagg aagtgctggg ccgcccagag    240
ggacagccct gccctggagc ttgtcgccgg gagggaaggg aaacaagccc cctccctcag    300
tgctgaggaa aaggcacttg gctgggtctc ctcctgccct ctccccatcc gtgggagaga    360
cggggtcctt gcctccttgc ccctttcagc cgcccagaag ccggtcctgg ttcagcctct    420
ggaagaagct tttgccgaac tcataggtgc tgatcatgat ggcacaggag ggggcagcct.   480
tgatgatccg aggaaggaag cctgcaaaga gtcccttggt gcccgactcg gcccggatcc    540
tccgcagcag cagccaggtg gagtccacat gcaggggtt cactctcaca gcctccatcg    600
ctcccagagc gacctggcgt tgggtcttta ccacgtcaaa gggtagagtc agcactgcag    660
ccaccgtccc tgagatgcca ccagccacaa agctcatgcc cacagaagtc tggtccttcg    720
gcctgagccc attgagccag ctcttcacca gctcatagtt gaaccagtac agggcttggg    780
gtggggggatg cactgagaag ggcacatctc gaagggcagt ggggccccag cccagccaca    840
gtgagcgcca gccaccctga gccactgcag ttcgaacaca ggcacccagc tcccggtacg    900
acacatgctg agcctgcagc tttgtccgca taagctccag ggggctgatc acagtcacgg    960
tgcccactgt gtggggattg ggggtgacaa tggggagaag tgagatcaca ggtcttacat   1020
ggcatcacct acctgctgtc ccaggtctgg ggacctagaa cacccccta tccctaggct   1080
ggcagaggtt ggggctggga gctgggactg actgggtttg ggcagaggtg gggacagagg   1140
gaggtcaaag gcccaagact atgctcacgg cgggccagcg cgccagccac catgggtgcg   1200
tagaggtcag aggtcagggc tcgaccacac aggaaggcct tcagttggtc ataggcagtg   1260
aagtagatgg cggtagctgg cacagtcatc accagggtgg cggggagctc gtgcc         1315
```

<210> 2876
<211> 1218
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)...(858)
<223> similar to gi340444 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2876
```
cccacgcgtc cggccataca aatgcaatga atgtgataaa accttcagga agaagacatg     60
```

```
cctcatacaa catcagcgat ttcacacagg aaagacttcc tttgcatgta ctgaatgtgg    120
aaaattctct ttgcgcaaaa atgatcttat tacacatcag agaattcaca caggagagaa    180
accgtacaaa tgcagtgact gcgggaaagc cttcactaca aaatcagggc tcaatgttca    240
tcaaagaaaa catacaggag agaggcccta tggatgtagt gattgtggga aagcttttgc    300
gcacttgtct atccttgtta aacacaagag aattcacagg tagtcatttt gggaaagcct    360
cttgccagat gtaggccctt aagatatctg caaagaagag taatttcatg aatgcagact    420
acatggttgt ttatttagtg atcagttact tcatgttttg tgtcagagaa aacatgtaca    480
aaacatttga gaaaatattt taggacatta tgtctaaaaa ttgtatactg agaaaaatcc    540
tatgaatgtg gcagactata aaagcctttg gtgggaagat aaaccccctc agaagtgatc    600
atagatcatg aataaactac taattcgtgg aaatgtaata attataggaa cgtctttgcc    660
caaaaataaa acctcaacag attgagagag ttcacactgg agaaatactt tcctctggca    720
gtgaatgtgg cagggttttc agtaaaatgt tttgcctcat cgtgtgctag gaaataatgc    780
agaaaaaaac taatgaaaac attcaatgta gaagactttt aggaaaacaa cagagaattt    840
aatgaaggaa agaagccttg gcaaatgat ggatgagagc tttctgtcac aattctaacc    900
ttaacagata atatgcctca tgtgcatttg ggaacaggat agcttgagcc atattcctag    960
ttgccttgtc actgatttta tacattttaa attgtgactt cctctaatca cgaactaaaa   1020
tttaatattg tatataatac cggagtattt tatgcctgcc tcattttatt atatgattag   1080
ctcctgcatt tctttagttc taagtttgtg ttatttcaga ataactaaag tacttcagaa   1140
tgaaactgga tacagtatat tcaattcata agtgtaattg accatacttg aatatgttta   1200
agtttataag taacatct                                                 1218
```

<210> 2877

<211> 2113

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1376)

<223> similar to gi5360087 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2877

```
gagttacaaa atatggacaa agaagatgca ttaatttgct ttgaagaaca cattcgggct     60
ttagaaaagg aggaagaaga agaaaaacag aagagtttgc tgagagaaag gagacgacag    120
cgaaaaaata gggaatcttt ccagatattt ttagatgaat tacatgaaca tggacaactg    180
cattctatgt catcttggat ggaattgtat ccaactatta gttctgatat tagattcact    240
aatatgcttg gtcagcctgg taagattatt ttctttccta atttaccgtt atggtagtag    300
ttgaaatggg ccaaatgcaa aggtgattgt gttggggaa agggtgcttt attttttgttt    360
tttaaacaac aaagtaattg cagctctttg gttagagcta gcttttgact tctttagttt    420
tttcattagg atcaactgca cttgatcttt tcaagtttta tgttgaggat cttaaagcac    480
gttatcatga cgagaagaag ataataaaag acattctaaa ggataaagga tttgtagttg    540
aagtaaacac tacttttgaa gattttgtgg cgataatcag ttcaactaaa agatcaacta    600
cattagatgc tggaaatatc aaattggctt tcaatagttt actagaaaag gcagaagccc    660
gtgaacgtga aagagaaaaa gaagaggctc ggaagatgaa acgaaaagaa tctgcattta    720
agagtatgtt aaaacaagct gctcctccga tagaattgga tgctgtctgg aagatatcc    780
gtgagagatt tgtaaaagag ccagcatttg aggacataac tctagaatct gaaagaaaac    840
gaatatttaa agattttatg catgtgcttg agcatgaatg tcagcatcat cattcaaaga    900
acaagaaaca ttctaagaaa tctaaaaaac atcataggaa acgttcccgc tctcgatcgg    960
ggtcagattc agatgatgat gatagccatt caaagaaaaa aagacagcga tcagagtctc   1020
```

```
gttctgcttc agaacattct tctagtgcag agtctgagag aagttataaa aagtcaaaaa    1080
agcataagaa gaaaagtaag aagaggagac ataaatctga ctctccagaa tccgatgctg    1140
agcgagagaa ggataaaaaa gaaaaagatc gggaaagtga aaaagacaga actagacaaa    1200
gatcagaatc aaaacacaaa tcgcctaaga aaaagactgg aaaggattct ggtaattggg    1260
atacttctgg cagcgaactg agtgaagggg aattggaaaa gcgcagaaga acccttttgg    1320
agcaactgga tgatgatcaa taaattatac caaatatatg tttacagtat gatttaaagt    1380
ctgattcaga ccagggactc tattttaagt tcaactgaaa taacactggg ttttaattat    1440
atcacaggaa aaaaaagtg catttaagta ttgttatcgt ggactttata aaagcaaagg    1500
aaattgaaag taacttttga ttctgtatca agaatcatat tttcatacag tcataactgt    1560
ctttctgtga cccttcaca gggcactgta ggatggatta aaggtggcaa tttactgata    1620
actgcagatg tctctacttt gttctaaaat ctaagtcatg aggtgatttg atttactta    1680
tagaagctgg attttgaaga tctaatgaaa aatttttga taatatagta gtacaaaaaa    1740
agcaccagca actgataaaa attgcttttt tgtgcgctac ccaactggtt aaagccaatg    1800
tgatcttta tggtgaaact cctaagaaac aggtggtttt gctggaaact tggtagaccc    1860
ttaattatag tggtgctaat gagcactact gtaatataaa gccaccatta tttttatca    1920
aacatctgaa tacattttac aaaggctatt gtgagggcat tattttgagc atctattttg    1980
aggtgatgtt taaaaaaact ttaacatcaa atcaaattgt aaattaattt aaatatattg    2040
ccttaaggac ctactaaaga atgtgccacc agactttaag tgatagttgc aatatccttg    2100
tctaaaaaaa aaa                                                       2113
```

```
<210> 2878
<211> 4352
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4353)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (4353)...(2201)
<223> similar to gi3327204 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
<400> 2878
ttttttttt ttaaataaaa gttttattcg gagaaaaata gaaccaccac gtacacaggg     60
ancaacaaga gcacaaaaat tcaactgata cagaacaaca actgaaattc accaattatc    120
ccaatgtagt ttgcaattac ttttcagttt cttaaacagc tccccctcaa cttttttttt    180
tttaacagtc ttgctaattt ttcagctgaa acagcatcaa gttttcaaag aattaagagc    240
cctcggggag gggaccccgc ttttcaagat actgaaggtg acatcaagag tctcctccta    300
acagggacca actcctatcc taaaagttgc ttacgaagta acttgaatct tgtggtttta    360
aatagtccta catctccaca gaccatccag gggatgagtt tagaacactg ttggttggat    420
gggtcccggt atgaagagag gggtaaacca aataggctgg catttgcctt gtcaagctga    480
gccccatata aagaaatcca gtgaaggaag ctgaggaaaa tataggcaat ggctggctcc    540
aataaggatt accaagttcc gaataccaca tatagttaga caccagtgtg caagttgatg    600
caactagaaa gaaatagacg acttttaaa atacctggcc acaggtcttt gagaactcaa    660
gcaaacaatc aacagtagac acaagagtca aaaatcttct caggttgaag attaggacat    720
aggtaatctt cctaacggct ccaacaggca aggaaatatg ctgtggcaaa aagcattaag    780
```

1693

```
tagttctgat ttttaacgag cataaacaaa attttctgct tctcctccct tcaaagcttc     840
aaggaaatag aaacaaggaa acaaaataaa aacaaaaaaa aatcagtgac agtaaagaga     900
agcctttgct tgaattatca attcgaaaaa cagtactttt gccattttgt atatataaac     960
aatcttggga cattctcctg aaaactaggt gtccagtggc taagagaact cgatttcaag    1020
caattctgaa aggaaaacca gcatgacaca gaatctcaaa ttcccaaaca ggggctctgt     1080
gggaaaaatg agggaggacc tttgtatcta gggtttttagc aagttaaaat gaagatgaca    1140
ggaaaggctt atttatcaac aaagagaaga gttgggatgc ttctaaaaaa aactttggta    1200
gagaaaatag gaatgctaaa tcctaggaag cctgtaacaa tctacaattg gtccaagttg    1260
aagacaaaac tgtccaaaca acatttaaag tctaaagtat gttgaaaact agttgcaaag    1320
tttttgctcc tgtaacaatt tacaaaacac gttcattttg gtctcttttg caattttctt    1380
attgtattca tttttaatat aaagagttgg atttttctct tctatgatgt tcctctagta    1440
caactgatca ttaattttct actttagcta tttttataag tacttgttaa tcagcacagt    1500
taacttgggg ctaagccata tacacacatc ccatactcat aaatgaaaat ttttaggatg    1560
tgaatataca agatattatg taagcaactg tccccctact tgaaaacttg tttccaaata    1620
attttttta aaaaacatcc ctttcagtgt aacagaacat cacctagtaa aatatcaata    1680
gctatgacaa ttcatttctc ttttcaaggg aaatcacaaa acgggtgaac aaccaagtca    1740
agggtggttt ttctatttga taaatacatc cagaactctg tacagtaaat aaagtttgca    1800
tgcagtttaa gtatctttaa atgacatttt aagcaaataa accttttgct tcataattaa    1860
tggtgtgtaa gaaccctccc cccttttaa tagccacagg gatctctttc ccagttccaa    1920
agaggaattc atgaagacca ggtacgttct taagtgtttt ctgcccatca tactaaataa    1980
catgcaaaga gttcaacaac attcttctta aaggtaagta ttactcttta aaatgggcat    2040
gttaaccaat gagaaaaagt ccactcaact atttccatta attacactgc ttcatttggt    2100
catcggtagt aaaaaaggag tcaaataata ttgaatcaac aggttagttt atccactggc    2160
tactgcatat gacaccaaat gctgcaaggc caacattcta tgcaatatag ttgtactggt    2220
ttggattttc tttatctctt tccatgtagt cccggtcaat taaagattct attctcttct    2280
taagatcagc aggctttact ggaaatttca actggttgta cacttctgaa acaaggagat    2340
tgtggctaag tgtctttctc atcttcataa ttcgaacaat tgcagcatca atttgatact    2400
gtctgtcttg aaatactctt tctgtagtgc ttgcttgttc ttcaaccgtt tctttcatct    2460
ggatttgatt gatctttatc ctgaaaagtt tatgtttgaa atcatcatta caaatgaact    2520
tgtcaccatc ttcaatgtct ttgccctttg gatttttcgc cagaactcta gctttgccac    2580
aggctaatga ctgcagtgtt ctccttaact ctccatcctc tattccagtt gcctgcttga    2640
tctcttctaa actgaactcc tctccctcat taaacattag cagcaccagt gtttgaaaaa    2700
gagagacctg gagttccttt ttaccctctt taaattctgc ttttaacaca cagtgtccta    2760
gggttgactg ccactgaagt ttcctgccac tatgtttgcc taggtaaaat gtcttgaaaa    2820
tctcctgaag ttttaccatc tctggtggta aatgaacttc cataggcaca tatgtcggcc    2880
aatagcccat tgtcaggata ttcacagtta actcaatatt tcccggaaca ttctgattct    2940
gcatatactg tttgaactga atcatgatgt ctttagaaag ttccatgtct ttaaacattc    3000
cttcaagttt gctggtgaaa gcagctccgc attcatgttt aagtttggac agcattgatt    3060
tttcagcatc tacagatgca ctctttccga ctaacaggcg cttggctaaa tctttcttat    3120
agaaggcctc aaaaacatcc ttgccataga taaatctaaa tatgatcata attttatcca    3180
acattttctc aagttcttca tctgtagctt ctttgttgcc tgcacgaagt tttgaatcta    3240
catacttagc tataagttca gctggtttat ttggtctttt gttaatgaac gtttcaaatg    3300
cttctttcat ggcattgata aatttctcat tcttcagaaa gcagatatca attatatggt    3360
caaccttatc tttaaaatcc agcaattctt gaaccatggt tttatctttt tcaggattaa    3420
ttacaatagt gctgccaaat gccttgatat attagatcca ctgctgcaaa agaacctgaa    3480
ctccacctcg aactctactg aagagctgat acagaagaga caaatcttga attcggtttt    3540
catcaaggag gttatttaaa cctttcctga agaattgctg ttaagtgttc acctagaagt    3600
tgttttcta cagtagcaat taatgacttc tgggtggtct gatctaagta agtaataagt    3660
ctgtctgctt cttcttctag acgtttgtta acatgatgta gatattcagg aacctctctt    3720
tcttgcatta attttttggcc ttcagctgca tagagccggt tagtttcttc caaaaatcgt    3780
tgttcaaaag aatcttgata aatttgcaaa tcagacagca tgcttaaaag gcttcgaagt    3840
aaacttctat caattgcttc accattcctt tccctctcaa tcaagagaag aatgccatca    3900
attgtcttat tctgcacttt ctgatcactt ataatatgag ccctaaataa ctccagtccc    3960
atgtcccaaa tggagggtag cattgaattc tgaagaacgt aagttctatc cagaaacaaa    4020
aaaatgctcc tgatcatgat catttgtctg caatggtttt gccagcatct atcaatcttc    4080
tttaaaaaaa gaacgctatc caatgaatcc tctctgaatt gatgaatctg tgctttgatg    4140
tgatcttcgc agatctgtct cagctgtttg tacaagtttg cagaaatctt gtaagaacag    4200
```

1694

```
agattttcta cagcctggta gagttcttct aaattgtact taattgaagt actattctga    4260
atagcttcca ctgcttcttt cagttttttgc caggtttcat ctgtgtagtt ttctggtaat    4320
ttaggcttat ctgcaaaatc cggatcaatc at                                  4352
```

```
        <210> 2879
        <211> 5153
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (5154)...(262)
        <223> similar to gi1184692 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
    <400> 2879
tttttttttt ttatttccac aattgcttaa aatattttat taaaggaaga atacaattta      60
acaaaaaagt gtttattaaa aggggaaata tatagtaata tgtttaaggc acatggcaaa     120
cttttggcat taaattgcaa gaaaaaagaa atacaaatta tcacaataaa tttcagaatc     180
tgtttcttta gtccaaatag ttttttttta aaaagtctg aacaggcagg cagcagttca      240
ctaaggaagg gcacatcatg ggcttgggta tctccgtggc gagagccact tgctgcctgg     300
ggggtactcc caggatcagg caggggctcc actcacatgg gacattcagg ggagcgggat     360
aatgccctgt tgaggggatt ttccccaca aacgtccaac tgttgggtcc agattttgct      420
gggaatttcc ctcacgtttc attttcccaa acaagaggca gagatttctc agggaaagca     480
attattgggg ttagggtcta aactttggg cagttgttc cactccaatg atggtataac       540
cttctgtttt cttctgctgc agataatcaa ttagctgagg tggttttacc tccactagag     600
gaagccactg ttctgcagag acactgaggt gctgaaactg tttgtcgctg atacactgaa     660
ggctgccaac aacgagcact gaagccccaa atacctcaca ggtcctgcac agtcctccta     720
aattggtcgg tttgtcgatg agcgaggcca caacgatgag tctactaatt gactttccaa     780
gtctggcagc acgatcctga aacaggagct ccaggtctaa gtcggaaaca cgactgttcc     840
acgggataat cttcttctga acgtcggtcc actccgcttg gttatctgct tcgaccaaat     900
tagtacctat gtcttgctga accagtcac ctggttttag tttactaagt tgagtttgag      960
aaaggtacca ctgaaatccc gcagctaaag gaacatcagt gaatctggta aatttatcaa    1020
tggtgatcca ttcatcttca ataaggcctg aaaggcgtgg aaggatgtaa aatatggtct    1080
ctagacaata atccttgagt gggtgaaatg ttgcaaaaaa gaaatgctcc tgaatgcgtt    1140
gccaattctt cttggcattc cctgctccgt gcatgctttc cacttgatgg aggctggatt    1200
caatcacagg agtcagggca tcaaattctt caacacttaa cactttacac acagtccaga    1260
gtttcttaag agcaactaaa gcatacagtc gaacactaaa attgtgattg aaacaccact    1320
gcagcacaac tataagggct tgcttcagaa ttagtttctt ttctggaata ttttgagtaa    1380
taatgtctaa atgtgataaa actgctaaaa acgtacaaat gcttgtttta agattttctt    1440
caccataaga aaaacaatcc cagaactttg gaagaaattg agggaattta tgaagaatca    1500
atataataat ccattctata aaatatttta tggatgcttg attgttggtg aaaaccagcc    1560
tggaaaatcc tgtcaaataa ttccattcaa gaaattctgg tcaagtctag gggatagtaa    1620
cagcagagtc ttgcacactc ggttttttcac tctgtgctgt agagaattca catagtagcg    1680
ttttttggcg ttggacgata aatcctcttt aactaatagc ttgattgcaa gatcctcaat    1740
aaacaacttg tgggacatat tggagccatc taataaacac aggaatttga cagcacaaat    1800
tctcacataa tggtcttctc tcttagtatt ttccataaca atatttgccg cacagtcatg    1860
tccaaggttt tctatgaagg tctgtacatc ctgaacaagt ctttgatcac gcctaaacac    1920
agttccaaat atacaagcct caaggataag ttcgctataa tttttagcac ttgataaaga    1980
tccttgggac acatttgaag cagacactat ccaagactga cagcagtaac ttatcagtgt    2040
```

```
attgaagact ccagtcttta tagcagacat ttcaattatc ttgtacataa tctctttat     2100
tttgaaatat gcctggccct tgattttggc agcaatggta agaactttgt tatcaaaaac     2160
aaactgaaca aaagcttttta aattagccca gaatatcagc tgagtgttgc ttaaagaaga     2220
tataattttc cacgccatgt caaaagactc tatgcagagt gattcagagg aagtcagaag     2280
cttgggaacc aacactttca agcaatggaa cactggtaaa acttgatcag aagaaagaac     2340
tgtgagggct tctagtgcag actgcaaagt ccttattggc atctgaacgg caggtagaaa     2400
cggttccaga atttcactcc ctgtggttgg tataagggtg tgatattttt tcaacaggaa     2460
agagaggcac acccattgat catgaatata ttgtgcaact attttttcccc atccttggga     2520
agatgacgat tcttccaaaa cactgctgca ctccaagggg tgagcataac tgctctgctc     2580
ctctgcgtgg ggcttctgca gcgtctgatt gagctgaaga gaggaaagga agctttccag     2640
gggcccagca tggagagagt ccagctgcag ctcaggcttc tggtctatgg cctcacacac     2700
catggccaag gcagccatgc tcactactct ctgaatctga cttccaactg ttggctcctg     2760
tccactgtcc atctcttgaa gatgctgaat ggatgcattt ttcaaaagag aaataactct     2820
ccagataggg ttaccccttt tccacccaac cttcaaatgc agatttataa gctcagttaa     2880
caccatcagg tataaatggc aacgatccag atctgaaaca ctatttagct cattcatagt     2940
aagtcttctg agaataaatt cagaaatgct ctctgtagta gacatgaaaa agttctgaag     3000
aacagtagac acctcatcat cttgggcact ggaacctttc aacctgcatg tgttcaacag     3060
cttcaacagc agctggaggc atctgtcagt cttcagcaag ggcatgtagg cattggtact     3120
aaacttcata agcacatcca gaagagggtc taagaatatc cgcaatacat tctctgttct     3180
ctgctttccg ctatactgag tcttcattcc ttccacatcc acagccagca agaccatcag     3240
agaaacaagc ttggcttcaa accaatcagg cataaagcag ttttctcctg tttcccaagc     3300
agatgactta acatactctt gaacaatgct ctttacataa gcatttaaag atgtcttgtg     3360
aagtccaatg gagctacacg taggggatgg cttaaaatag cttttcattaa cacgtagcca     3420
gtcacacagc tctgtccaca atgaagttcc tcgtcctaag gattcctctt gtctcagaga     3480
catgagaaaa gttgagacat cagaaagtga cacttatctc cacatctagc aaaattcatag     3540
cctgtttgaa gaaggtagca ttggagcgcc cctctcagga gaatttgatg tgtgatgcta     3600
gtgcaatgaa taacatccct gagagcaaga agcccatcta tacccagggc cttatgtctt     3660
gggacatttg ccaaagcctt agatagaaac aaaatgggaa cagcacacca atgcctactt     3720
gtcatcttcc gaataaactt caataggaag ctactcttta tttcttctgg aagaagagaa     3780
atataagtga ctaaaaactt ctgtaatttc agtcccaatg gagaacagct tcctattggc     3840
tggcctgggg acctgctata cagagagctc tctgaaagcg catccattaa tggtccaata     3900
ataaactcag aaaattctgg tgaaaatgga agaatctttg tttcatacag ctccaaaaaa     3960
tggataacac cttctttgga caggattttg ttttcacttt caaacattct tttataaata     4020
cacatatgcc aggatgggtg aaagagccaa catccatttt cctctgacac cgcatattca     4080
aacagattgt ttagctttgg taaaactggc tttataacat gtatctgatt tccttctaaa     4140
gtctccataa ttaaaatata attttcccaa aactttagaa gctcatcttt tttcctctca     4200
gaccaccaaa acagacttgg gccgtttcct tcctggggcc cgcaggtgca gtcggcccc     4260
agctccgccg acacctccac cgccctctgc agcaggtagc gcgctcgctt gcgcgtcagg     4320
gcgtccgcct ggcccagccc cgcctgcacc gtcctccaga agcgccagca gcgccgggcg     4380
tccgggcccg cctcgcgcgc gccgcgggcg cggtcgccgc cgggctcggg caacagcttc     4440
tcggccaggg cgctcaggac cagcagcttc tcctctacgc ggccggaccc cagggacgcc     4500
ccaggcgcgg ccagcccgcc ccacacggcc cgcagcgccg ccccgccaca ttggaccagc     4560
actggcagca gtcgcccggc caccagcgcc gccgcgtcct cggcaggccc ggcctcatcc     4620
ccgtccccgc ccccgcccag cgccagggcg acggcggtcc ccgccacccg ctccagtagc     4680
ggcccgtcct cgcggggccg caaacatggc ccgacggctg ctagcacttc cacggcagcc     4740
tcggcgccag gcgcgcgcca cccggcgagc agatcgcgca gcgcctcctc agccagcgcg     4800
gccgccagct gcggacgccc ggccaggcgg acgcacgagc gcagggccgc gcccgccgcc     4860
ctcagcacgc gccggcggtg gcgaggctgc agactggggt ccgggccgcc cgcggggcgt     4920
ccgcgcaggc tccgcagcag tggcacgagg taccctgcag ccacctcgcg cgccgcctcc     4980
gggagcgcgc ctgcgccccc gctgccgcgc gcctcctcgt cctcgagccg ctgcagaagg     5040
aagcgcagcg tctccacgcg ctccgcggat gcctcccctt ggcacagcgc cccaagcagg     5100
gcccgggggt cccggctctg cgagagcagc gcttccgcga gcacccactc cat          5153
```

<210> 2880
<211> 2142
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1851)...(1543)
<223> similar to gi1872200 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2880
```
aaaagatgag agaaaagata aaaaagaaga aagagatgat gaaactgatg aaccaaaacc        60
caaacggaga aaatcaggcg atgataaaga taaaaaagaa gatagagatg aaaggaagaa       120
agaagataaa agaaaagatg attctaaaga tgatgatgaa actgaagaag ataacaatca       180
agatgaatat gaccctatgg aagcagaaga agctgaggat gaagaagatg atagggatga       240
ggaagaaatg accaaacgag atgacaaaag agatatcaac agatactgca aggagaggcc       300
ctctaaagat aaggaaaaag aaaagactca aatgatcaca attaacagag atctgttaat       360
ggcttttgtt tattttgatc aaagtcattg tggttacctt cttgaaaagg atttggaaga       420
aatactttat actcttggac tacatctttc tcgggctcag gtaaagaagc ttcttaataa       480
agtagtgctc cgtgaatctt gcttttaccg gaaattaaca gacacctcaa aagatgaaga       540
gaaccatgaa gagtctgagt cattgcagga agatatgcta ggaaacagat tattacttcc       600
aacaccaaca gtaaagcagg aatcaaagga tgtggaagaa aatgttggcc tcattgtgta       660
caatggtgca atggtagatg taggaagcct cttgcaaaaa ttggaaaaga gcgaaaaagt       720
aagagctgag gtagaacaga agctgcagtt actagaagaa aaaacagatg aagatgaaaa       780
aaccatatta aatttggaga attccaacaa aagcctctct ggtgaactca gagaagttaa       840
aaaggacctt agtcagttac aagaaaactt aaagatttcg gaaaacatga atttacaatt       900
tgaaaaccaa atgaataaga caatcagaaa cttatctacg gtaatggatg aaatccacac       960
tgttctcaag aaggataatg taaagaatga agacaaagat caaaaatcca aggagaatgg      1020
tgccagtgta tgataaaatc catgtagtga tgaggaatgg tgttaaataa tgtaatatat      1080
aaaaatcatg atataagaat gtttgaaggt gatgcatgtt tgattttagt agtataaatg      1140
tattttagtt caaatgatgt ataaagtttt atgaatgtga gtttctgctt ttgaaaattg      1200
cttgtaattc ctagccttca aattattaaa cactccttga gtgaaataat tttgcattgc      1260
aaagtgtttt aggatgaact ttgttatagt tttaactcca ataaagttca tcagtttaat      1320
tgactgtagt atttaattac caaatttctt ttattaaaat gcctagaaat ttttaattta      1380
tagaattatt aggttttaaa atttttagtt catctgttaa aatttcagtc aaaatcataa      1440
aatagcatga tgcttaattt ttgcaagttt tttgaaactt tttgtttttt ttactcatca      1500
ccaaaaaatc ccctcttgat cagtctctaa aagcattcat taaaaattca gttcaggccg      1560
ggcacggtgg ctcacacctg taatcccaac actttgggag gccgaggcag gtggatcacc      1620
tgaggttagg agttcgagac cagcctggcc aacatggtga aacccggtct ctactaaaaa      1680
tataaaaatt agctgggcat ggtggtgggt gcctgtaatc ccagctactt gggaggctga      1740
ggcaggagaa tcgcttgaac ccaggaggcg gaggttgcag tcactcagga tcatgcagct      1800
acactccagc ctgggcgaca agagtgaaac tccatctcaa aaagaaaaaa aaaaaaaatc      1860
agtttatttg aaagacagta tatcagaaag aaagaagcaa tagagaacta gtattgttct      1920
ttatgggtta gactttacat aatattagtt gtcctgatgt caatgttact gctttcaatt      1980
aattttccta ctttcccaga atagcatcta tattcctttt aattttgagg gtttaaaaaa      2040
aaatgcagtg tatgtcaaat ttacagttta gtaccaagcc agtagatgtc agtatgatgc      2100
cttaaattaa gtcttcttta attaaagata tttttttaaa tt                        2142
```

<210> 2881

<211> 1327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (86)...(1141)
<223> similar to gi2772914 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2881
```
cgcgtgcacc ggaaaatctc acagaagcag cagcggaaat ggccccgcgc ggcaggaagc     60
gaaggtgacg ctacgcgagc gagtgggccc cgccctctac gggggcactg gcgcggaaac    120
tggccctgaa gtggggtctt ccccggcgga tcctggagtc ctatttcctg tttaacttct    180
taggatcttg ctcattgacc cttgctgggg cgaggctctc tggactgaac acaggccagg    240
agctccaagc ccagcaggaa aggtattgtg aggcccaagg ctccccacca ggccttaagt    300
ccccagagag gttccagagg gttcagcgcc cagacagaaa aagctcgaaa cttcctatac    360
aagccagagc tctggagagg aacagaccgc acatgtcaga gcccattaag catttccatc    420
cagcctgaaa aggccaggag agtcaggcca ccaggggggcg ccagagaacc acaggagatc    480
caggaagcgc ttgctaggac caagctccca gctcccagga cccccaggcc ggcagcggag    540
tccaggagct ggtgtggccc acaaagggtc ggagagcctc ccagtgagaa cagtaggggc    600
aggaaaatga tcaggtcaag ggtctcccag ctggcagaga gggctcccag cagagtgagg    660
acttcattct ctagggcaga ccacgcccac tggaggaagg aatgtacatc ctgggaggcc    720
tctaagctcc ccagactcaa atgccagcag ctcacatact ggagaagagg aagcctggaa    780
tttacagggt gcagaggggc tgggcagcag ccttcctgcc attctgcaga acctgtcagc    840
ttcaaaggga ggctccactc tgcggtggca aagctgggcc tgacccttct ggccaagatg    900
tcctggtccc cacagctcgc caagcgcaag cacttggccc ctaacctgag cctgagggaa    960
cctgattcta ctctgcctcc ccaaagtggg tgatccctcg tgcaggggag gacagcatcg   1020
gagattcaca ctgcttcaca gagggatctt cagctgcaag gtcactgctg tactggggcc   1080
cacccttccc taagacagag agtcccccag ggccaggagg caccctggga acccaaatgg   1140
ggctccacag aatacacgag cctccaaaaa gtttagtatt atgaagcatc tgaatttttt   1200
tctcttccag aatggctta aaaagtagac tcaggcccag agtcctcagg acatatcaga   1260
aaagctttga gagtgtcctg atctctgcaa agcctctaat aaattggtca tttgggcaaa   1320
aaaaaaa                                                             1327
```


<210> 2882
<211> 1502
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1145)...(629)
<223> similar to gi1707154 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2882

```
tttttttttt ttttctattg cttaatagaa aacatatttt tattccgtac tttaaaaata      60
tagactttct agcaacttat aaatttctat tataataata aattgatact ttgagccaag     120
aaaacaatat aaccaaaaat tcatttgttc cctttgttta ggggtgtttt acatttatgc     180
ataattttgc ttttataaaa gatgattgtt acaatcaggt atacaactac ttggttatgt     240
ctaagttctg tctcttaaaa tatgttcttt tagagaattc atttaatcat cttattcttt     300
tcttcaattt tctccaaaca gtggtagaag tactatttga tagacagaat aaagaaaatt     360
gtttttggcc acacccagat catactgata tctacagcat agtcctggct acaggggagc     420
tcaactctaa ctcgtgaagc gggcctggtt tagaaagtaa caatgaggta gtaactcatg     480
atagtgctag ctgttatcaa aaattaacaa ctttaggtat ttttgttttg ggtttttgcg     540
gtttaggtac atccaaaatt tcttcatagt ctgcactcat tccctttgcc cagcgaccaa     600
ctgtgaccat tcgctctgaa ttctgacttt cagggcaatc tttctttaaa tgttccacag     660
agccacaaag tttgcaaccg ccaccatcag catagagtcc tttgggatta tcaggacaag     720
atctagacag gtgccccatt tctccacaaa caaaacattt tgcaaaagga aattcgccaa     780
gagccgggtc tactttagcc ttacacttgg ttatttcgtg ctctgtggac ccacacctgt     840
aacatatccc agtgcccatg tcttgatttt caagggcggc ggggcaatct gcaattccat     900
gaccaggttt tctacaatgg aaacacacca ttgcattttt ctttgccgct tgtctttta      960
atcttcttcc ttcccgtcga ctgtctttct ttaaagcaac tgcaatttct tcccttactt    1020
cctcactgtc tgttgctata atttgcccat tgtgaaccat ctgtgaattc tgtcttaggt    1080
attccatgaa tccattcaca tcttcattta agtactcttt ttttctttttg ttcttttttat  1140
gtttttgcttg gggtgcatca tttttgaggg atagcctatt ggcttcaagt tgtttacgct    1200
ttggtaggtt ttggcttgtt ccctcaaagg atcccttctt catgtcctcc catgatgttg    1260
caggcaaggg tctcttgtta tatgtggtac taactcgggc ccacctggtc ataatttcat \  1320
cagtggtacc ttatcaattt ttaagacaag caggggtggt tagccatcaa caacaaaaac    1380
aacaaaacta aagagacatg ctatatcact atatgtcaca tatgcccata tgttaaactt    1440
ttaattatta aaacactttt tatttcagtt agatatctgt atacatattt aatggctata    1500
at                                                                    1502
```

```
        <210> 2883
        <211> 1188
      ╱ <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1084)
        <223> similar to gi5106956 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2883
    atggattatg aaactacaga aaaggaagta gcagaaccac tcctggacct gaaggaagga      60
    atagaccagt tggagaacaa taaaaccttg ggctttatcc tgtctactct cttagccatt     120
    gggaactttc taaatggaac taatgccaaa gcgtttgagt taagctacct cgagaaggtt     180
    ccagaagtca aagacacagt gcacaagcag tcgcttctcc accatgtgtg caccatggtg     240
    gtagaaaact tcccagacag ctccgatctg tactcggaga tcggggccat caccaggtca     300
    gccaaggttg actttgatca acttcaggat aatttatgtc agatggagag aagatgcaaa  ·  360
    gcttcatggg atcacctcaa ggcaattgca aaacatgaaa tgaaaccagt tttaaaacaa     420
    cggatgtcag agttcctgaa agactgtgca gagcgaatta aatttttaaa gattgtccat     480
    agaaggataa tcaacagatt ccactccttt ttactcttta tgggccatcc accttatgca     540
    attcgggaag tgaacataaa caaattctgc aggattatta gtgaatttgc actagagtat     600
    cgcacaacca gggaaagggt tttgcagcag aaacagaaac gggccaacca cagagagaga     660
```

```
aataagacca gagggaagat gatcaccgat tctggcaagt tctccggcag ttctccggcg    720
cccccaagcc agccgcaggg tctgagctat gcggaggacg cggctgagca cgagaacatg    780
aaggctgtgc tgaaaacctc gtcccctcc gtggaggacg ccacccccgc gctgggcgtc     840
cgcacacgca gccgagcaag ccgaggatcc actagttcct ggactatggg aactgatgac    900
tcgcccaatg tcacagatga tgcagctgat gagatcatgg accgcatcgt caagtcagcc    960
acccaagtgc ccagtcagcg agtggtgccg agggagagga aacgatcccg ggccaaccgg   1020
aaatctttgc gaagaaccct gaagagcggc ctgaccccag atgaagccag agccctgcgc   1080
ttggttggca cctctgagtt gctggtgttt ccgttataag ttattcctat ataggtctca   1140
gtaaatgtgt cattttttt gttctatacc tgttccgttc ggtttctg               1188
```

<210> 2884
<211> 2201
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (110)...(1633)
<223> similar to gi3881665 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2884
```
agaaatgact taatcgtctt tttggcagac cagaatgcac ccgtattta aacccaaagt     60
aaaggtatct ttcaagaatc acagtgcatt gataacaagt gtagtccctg gggattatga    120
tggagattct caaatggatg tccttctgac atatcttccc aaaaattatg ccaagagtga    180
attaggagct gttatcttct ggggacaaaa tcaaacatta gatcctaaca atatgaccat    240
actcaatagg acttttcaag atgagccact aattatggat ttcaatggtg atctaattcc    300
tgatattttt ggtatcacaa atgaatccaa ccagccacag atactattag gagggaattt    360
atcatggcat ccagcattga ccactacaag taaaatgcga attccacatt ctcatgcatt    420
tattgatctg actgaagatt ttacagcaga tttattcctg acgacattga atgccaccac    480
tagtaccttc cagtttgaaa tatgggaaaa tttggatgga aacttctctg tcagtactat    540
attggaaaaa cctcaaaata tgatggtggt tggacagtca gcatttgcag actttgatgg    600
agatggacac atggatcatt tactgccagg ctgtgaagat aaaaattgcc aaaagagtac    660
catctactta gtgagatctg ggatgaagca gtgggttcca gtcctacaag atttcagcaa    720
taagggcaca ctctggggct ttgtgccatt tgtggatgaa cagcaaccaa ctgaaatacc    780
aattccaatt acccttcata ttggagacta caatatggat ggctatccag acgctctggt    840
catactaaag aacacatctg gaagcaacca gcaggccttt ttactggaga acgtccttg     900
taataatgca agctgtgaag aggcgcgtcg aatgtttaaa gtctactggg agctgacaga    960
cctaaatcaa attaaggatg ccatggttgc caccttcttt gacatttacg aagatggaat   1020
cttggacatt gtagtgctaa gtaaaggata tacaaagaat gattttgcca ttcatacact   1080
aaaaaataac tttgaagcag atgcttattt tgttaaagtt attgttctta gtggtctgtg   1140
ttctaatgac tgtcctcgta agataacacc ctttggagtg aatcaacctg gaccttatat   1200
catgtataca actgtagatg caaatgggta tctgaaaaat ggatcagctg gccaactcag   1260
ccaatccgca catttagctc tccaactacc atacaacgtg cttggtttag gtcggagcgc   1320
aaattttctt gaccatctct acgttggtat tccccgtcca tctggagaaa aatctatacg   1380
aaaacaagag tggactgcaa tcattccaaa ttcccagcta attgtcattc catacctca    1440
caatgtccct cgaagttgga gtgccaaact gtatcttaca ccaagtaata ttgttctgct   1500
tactgctata gctctcatcg gtgtctgtgt tttcatcttg gcaataattg gcattttaca   1560
ttggcaggaa aagaaagcag atgatagaga aaaacgacaa gaagcccacc ggtttcattt   1620
tgatgctatg tgacttgcct ttaatattac ataatggaat ggctgttcac ttgattagtt   1680
```

```
gaaacacaaa ttctggcttg aaaaaatagg ggagattaaa tattatttat aaatgatgta  1740
tcccatggta attattggaa agtattcaaa taaatatggt ttgaatatgt cacaaggtct  1800
ttttttttaa agcactttgt atataaaaat ttgggttctc tattctgtag tgctgtacat  1860
ttttgttcct ttgtggaatg tgttgcatgt actccagtgt ttgtgtattt ataatcttat  1920
ttgcatcatg atgatggaaa aagttgtgta aataaaaata attaaatgag caggaatttt  1980
tgtgtccact tgacttggtc ttgcttctta ttctaatgat gcaaattata cttttgtgaa  2040
tatatcacgg agtcattagg cattcagctt catcacagca ggtcaggggt ctcactgatg  2100
gcatacaata tagtgatcgg gtactctgac ttggtagcac agtaagacag acttgcctta  2160
aactcctaat tcaaccactt acaaagtcat tgtttgaact t                      2201
```

<210> 2885
<211> 3244
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)...(601)
<223> similar to gi3002527 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
    <400> 2885
tttttttttt ttggtagaga tggggtcttg ctgtgttgcc caggctggtc tcaaactcct    60
aggcttaagc agtcctccag cctcagcctt ctcaaagtgc taggatgatt ggcatgagcc   120
acctcgtctg gcctgcaggt ctttttaagc atttgctgtt caataataag catcttcttt   180
atgcctagta tttgtgataa gagcacaaaa caattttcta atctcaaaga gcttatattc   240
tagtggggta gagataagtg atttatcttg gtgtagtttt ggcttttttg tttgtttttt   300
tgagacagca tctcacactg tcgcccaggc tggagtgcag tggtgcaatc tcagcttact   360
gtaacctccg cctgccaggt tcaagcgatt ctcctgcctc atcctcccga ggagctggga   420
tcacaggcgc ctgccaccac gcccggctaa ttttttttgta tttttagtag agacggggtt   480
tcaccatatt ggccaggctg gtctcaaact cctgacctcg tgatccgcct gcctcggcct   540
ccctaagtgc tgggattatg ggcgtgaacc accgcacctg gcctatcttg gtgtttttac   600
atccttcagt attttttcaag gttttacagc tttttttatct atagacttat accatcttca   660
aaagcaatac aatttttattt gtagacgtga tttcccccac caaatgcaca ttttatggag   720
ctctaggaca aaagtcagga tgaaaagtaa tctatcgctg gtgctacttt aataccttcc   780
tgactggtgc cactggctaa attctagcag tacgatgaga gggccattaa ggcctatctt   840
agcaagcaag acattatagc aaagacctaa acactcaaag gttcaacgtc ttctagccag   900
ggaactattc tctaattctt ccaccttgat atgatttcag caaattctga taacccggta   960
ttactcttaa tgcatttttg taacatttga caaacatctc ccaatatgta gactcccact   1020
ctcctgatgc taatcagtat cagacaatgg aagtaaattt tcctgctttt ctcaactttt   1080
cctcaaattc atgttagtga agtactttca tttggccatc attatttatc aaccttaaga   1140
aacatgccta ttgacgaagt aaatatacta ggaattcaac gtatctacgg gaatgtggac   1200
aaagacatat accaagacaa ggcactagag tgaaaagcca ttaaaataaa atgctcagca   1260
gcaaaggatt tgtaatggtt aatttgcaat atatccatat ggtgtaatat tacagtcatt   1320
agaaatgaca tttgcgtaag gatctgagtg gaaactgata cagcctgtcg gagagctact   1380
gagtagtatt ttatcacagc tgcatacata ccctttcacc caacagttcc actcctggga   1440
gtctagtcaa caaatggaca agttgcacaa ccaagctatg gtcaaatatg tgtgttgtag   1500
gatttatgaa actggtacca atttaatatt caaatgtgat taagtcatgg caatctattt   1560
actggatact ttgtggttac caaagagcta tgtgctgcca cagggagtcc tttcaatagt   1620
gattgaaaaa ggcagaacac tactagacag aactacctat tttatgcatg tattggcata   1680
```

1701

```
cactgaaaaa gcttagtcac ttaaaatgag gttgtacaga ttgtagattt tgttttttaaa   1740
cgcctgtatg gtttaaaaaa tgttttggga aatagacatg agcagggcag agaactacaa   1800
cctacaggcc aaaccccacc ccactgcctg tttgtacggc caacaagttt aaaatttttt   1860
taatgtttta ggttttttttt tttttaaaaa aaatactatg cccatttgtt tacaaatcgt   1920
ctgtgggtgc tttctcacta caatggcaga attcagtagt tgagacagac ctatggtcca   1980
caaaggccga aatatttact gttttaggag aaaaaaacaa catgaattgt aataacttgg   2040
acttacttgg ttgctcagtc ctgatgtgtc ctgttaaaac ctaagagaaa cagcaccaag   2100
ttcaatctag tgcaatcagc ctatcacatc taagctgctt ttgccagatc tgatatctac   2160
tcccgacctt aagccaggag actttgtaaa cttactaggt tataataaaa cttaaaaact   2220
atcgatattt actaatctac atcatggaac tatttcaaaa gcagtcatat ggtaagatgg   2280
atcaggagtc tttaaaaata aaactgagaa agaaaaatca tgtgatcaat tcagtagtag   2340
agacagaggt tggtatcaag tctatgttca tacacttacc agtgccaccc agcagggcca   2400
tacaagacac atgaaatgag atcagctcaa gggtgacaag atgaaactgg gagagggccg   2460
gggagacccg aactcttaat attggattcc acacaagagg aaaaattttta gtccagctcc   2520
cagcatggca gctaatggca agttactcag taccataaag ccaactcttg gaatatacct   2580
gacttccacg ataaaatgga gatgagtgca ggggtgagtg tatagttaag aaaacaaaca   2640
atatattact agtccaggtg gtagatgaca gatttttatt atttacactt ctctcaaatt   2700
attacattca gcatgttttg ctttttatgt tatttaaagt ataaaccctc atataattcc   2760
ctaagatggg tggcatgcca agtagctaaa tgaaatatca tcccagccca aaagtactta   2820
ttcgaatgaa atattacatt tttcttaaat aaagcaataa attaggtacc ctattatcat   2880
ggtattttct tttttggcca gcttttctag ataaggttgt attgctactg caactaacaa   2940
aaaagatgtg gcagggctgg gcacggtggc tcacgcctgt aatcccagca ctttgggagg   3000
ccgaggcggg cagatcacga ggtcaggaga tggagaccat cctggcccaa catggtgaaa   3060
ccccgtctct actaaaaata caaaaaattg gccaggtgtg gtggcaggtg tctgtagtcc   3120
cagctcctcg ggaggctgag gcaggagaat cgcttgaacg cgggaggcag aacctgcagt   3180
gagccaagat catgccacag cactccagcc taaactacag agctagaaag tggctagagc   3240
agcc                                                                  3244
```

<210> 2886
<211> 989
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)...(284)
<223> similar to gi3002527 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

```
<400> 2886
gttggggtct cactctgtcg cctaggctgg agtgcagtgg cgtggatctc tgctcactgc     60
aagctccgcc tcccgggttc atgccattct cctgactcag cctccggagt agcggggact    120
acaggcgcac gccaccaggc ccggctaatt ttttttttttt gtatttttag tagaaacggg    180
gtttcaccgc gttagccaga atggtttcta tctcctgacc tcatgatccg cccacctcgg    240
cctcccaaag tgctgggatt acaggcgtga gccactgtgc ctggccaaac gctggtaggt    300
ttgggagtga gaccacatta catttaaata tatttacaat gttttctgct ctattcttta    360
gtagactttt cctcacgtgg tcctacgcat ttctttctaa gtttattttc atatagccta    420
tccctgtcta caatttaaat tgggatcttc tatattctag ttattatttg taaataagaa    480
aactactgac tttttctag tatattttct cagaatagga ttttctattt ttctataaaa    540
tgaccaatgt tatgagcctt cgtaagtttt gtcaaagtga tacacacata cagcaaaaaa    600
```

```
tcaaatagta cagaagtata aaagcaacaa cctctgcctt gccccttctc caccttcagg    660
tcccttccc  agatacaata attttttagct ttttattttt aattattctg gttgttacct    720
acataactct gggcaatatg gaaaagttat tgattttgta tattaatttc ataatcagtt    780
accttgatga attctcttgt ttctagtagt ttttctttag ggttttaaag ggatacaatc    840
ataccatttg cagttagtaa ccattttatc tcctcttatt tccaacttcg tactgttttc    900
tcttgtctaa tttgttttta attggtgggt acttctagaa caaggttaaa taaaagtggt    960
gttggtgggc gtccttattt ctgatatta                                      989
```

<210> 2887
<211> 914
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(915)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (9)...(471)
<223> similar to gi56689 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters

```
<400> 2887
attttgtggc gctgtatgac gctatcatga atgcaggcca ggaggaggga atcgacaatt     60
ttggaaccta tgccatgaat gccttacgcc tggagaaagc cttcagagcc tggggggttag    120
agatgaactg tgatacaaat cctttggaag ctggactgga atattttgtg aagttaaata    180
agccagcaga cttcatagga aagcaagcac tgaaacagat taaagccaag gggctgaaac    240
gaagactggt ctgcctcacc ttggcaacgg atgatgttga tccagaggga aatgaaagca    300
tctggtacaa tggcaaggtg gttggcaaca cgacatctgg aagctatagc tacagcatcc    360
agaagagtct ggctttcgca tatgtccctg tacaactaag tgaagtggga cagcaagtgg    420
aagttgaact attaggcaaa aattcccagc agtcatcata caagaacctt tggtattgac    480
cgaaccacct agaaaccggc ttcagaagaa agggtgaagg acaaaacttg aaaaaagcct    540
tccacagtca ctgaataaga ttgctntgcc tgtcttgaaa tatataacgg ctccagggga    600
ttagggaacc ggaattcttt caaacgtcaa gcctaatttg atctaggaac cttctgtaag    660
ggttctagca gccgattatg gatatggtac atgcctttaa tgagaatgga agatgtgttt    720
tcccccatcc accgaaaatt gggtcgaaac accttccact atgggctctt attgaaacgc    780
ggctgtggaa aattattctt taaaaaagaa agtttgcggg ctcttgggtt ccgcggttag    840
gggcgtgcgt gcccctggg  aggcccctgt gggcgggggt gcgcccgctc tttcggggcg    900
atggccgcaa ctga                                                      914
```

<210> 2888
<211> 1950
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1887)...(919)
<223> similar to gi4490733 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2888
ggcacgagca caatgtttga tgctggtgca catatacaat acacacatgc acaacactgt   60
gtctgcaatg atataatagg gctaccaaga ccaagagagt aaatatcaac ttaagaacac   120
ttctaacttt agaatttcat tttattaaac atacttttaa aacaagcacc tcttggcaat   180
aaaagcaaaa acaaaaaaca aacaaacaaa aacccaacca aacaatagta ctccttccac   240
tctatgctaa cggaagactt ctcacaccag ccagttaaac aatgaaattc ttaaacacgc   300
agcctgctgg ggctgcatgc agagctaaaa tgcaggtgtg ctgacttctt ggagctggag   360
cagaggaaaa catcaaaaag catatctgga atctatcaca gctttctttc ttaagcaaat   420
aaaaatgcaa attagtttca taaccacaat tcaatttatc aaactttttc tgaagaattt   480
tcatttaatt atgtatacat aacaggaaat aaaacttttt cacaaacact ctcaaggctt   540
acgattatca agaaaatgac aaaagtaaaa gcaggaggaa tattaaacac atggcgggga   600
ggtcaatttc cgtttctgct cttaaaaagt aaaaaaatca ccatataatt aagtacaaaa   660
acctgcattg aatgacaact gctggtgtat ttacttgatc agaaatgaag accaagaata   720
taataaagcc ctatgataat attcaccggg agcactcccc tcagtgtgtg tacactaaca   780
ggttggcaaa gtttctggag cattagctta tagaaacaca ggagtccttg gttagctgca   840
ttatatggaa cgttctcttc tgaaatgcac ccacgattca gtttcactta caaattgcaa   900
actaaagtta tctcttcaga aaaatatctg tttggcatct cctggacttt gttccattgg   960
acagtaggga cattttaatt tgctaccatt aaacatttta ttcagggcat ctcttgatat 1020
aatatgacca cagaccaatt tcatgggtgg attgttatct gttgtttgct gacgaagaat 1080
ggggcaggca aatatagagt gatacccagc acttttttac ccaaggtccc acttcaatag 1140
gtaattcatc tttctggttc caaactccag tacactgcct ctgttcaatc acggctttga 1200
tgttaattaa agctggcagc gccacacaac ctgctgagaa actgacactg agaggggact 1260
ccacggagag ccccaggagg gcacaagcat cccgtgtaaa gatgtcacag atatcagccc 1320
actggtttgc atcaagtagg tgaacatatg gtgagttctc aatcccttgt ctcaggtaca 1380
caaggcttcc catcaaaacc tgaatgtctt tttgatgatt tagggcaaat ggctgaaaat 1440
ttttagcata ttgtaatgcc tctcgctgat ttgtggttcc acccattaac aagctaataa 1500
aatacagtct gtgtagctta aattccaagg agctgttttg agctataagc atttcccggt 1560
ttgacactgc ccactccaga gcaggtctca gaactctgac ctttaatgcc tctaatattc 1620
tatttaactc cacaaatggt tccttctgac ttgggtctac agaaagacca gattcctgac 1680
agagctcctc agccacatcc agcattcctt gtcgaaagaa gtgctccacc atcacctcat 1740
tgagaagcct ttggctgtct gcctgccagc agccatctat tcccacactg ctaatgtcag 1800
aatcaaaatt cttatcaatg gcttttccaa cccgagaaac actgctgtgg atgtctttgt 1860
ggtcggaggc caatttttga acagtatcct ttattctttt acagcactgt gtcaaaacaa 1920
gtgaaagtgt ccctgataat tcagcatctt   1950

<210> 2889
<211> 1819
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1821)...(1526)

1704

<223> similar to gi1230564 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2889
```
tttttttttt ttgaaaagag acaataaaat gatttgtttt ttattcaaag ggataactgg      60
ataagtagat ttgttccatt cttgtgaaat acttttaaa aaaatacgac caacttcttt     120
gcaaatagca gacacatacc tcaactatga tgacctaatt tttggtggat aatgtacatg     180
attaggcaga aataggcaag ctcacactgg tagattaact atcaaatact cagtcaaaac     240
tccgtttgtg gcccccactt cttgatcgat ttctattccc acttcgtctt ctaccatctt     300
gtcgacttcc tgagcgactt ccttgtcgac tctgtctacc tgaccggccg ccagatcgac     360
cacctgaccg gcctgaccgg cctgatcgac cacttgacca gccactcctc tgtctggaat     420
tagaagatgt gtttccatca taatattctt caatttcagg taatttggct ggcactgaga     480
gtatccagtc ggaatcatgc cactctgcct gtaacctttc tgactcagtt gtaggaacat     540
caaagcaaac acccatattt cctttcagga ggcacattct ggtaatctga gacactgcat     600
tactactcag ctttctgtta agttctttcc aagcacagct gacatcctgt atttcctcta     660
ggctttccag agtcatggtc acaaacccct tatcagaggt gatcaaagat cgtggttcaa     720
agcttgatgc accagaaatg tgggctaaag ctgcagccaa tgcatccact gcacctttct     780
cttctatcag tctctgagct gatggtcgga aaaaatcaac agcagcataa gaaacggaag     840
ccagagacct gatggcatcc atgctttttag atttaactaa atccattgta gaaggaacac     900
ctacacgttt aaaagtaatt cctgcttttt gttccacata tcttagttga cctctttctc     960
ttggttgata aaaacatata caaatccctg tccgtccagc tctacctgtg cgtccagagc    1020
gatggatata ggactcaaca tcctgaggag gagaactttg aatcaccagg tcaacttcag    1080
gaatgtccaa accacgggca gccacattgg ttgccaccaa aactttaaaa ctaccttctc    1140
tgaagccttt tagtgtaatt tctctttgtg actgtgcaat gtccccatgt aaacactggg    1200
cattctgttt tatgtgtgga ttcatggcca tttcagttac attcttcttg gtctcacaga    1260
aaataatagc cctcccttca gacccactgt agacttgaag gacatctcca ataactgctg    1320
gcctctgaga ccaatgacac tggatggcca aatgttccac agtagttgca gcctttgag    1380
tcattttcc atcaaggtca acctgttcat atctggattt catgtatttt ttctgcaact    1440
gtgtataccc actgtgggca agttgcagaa aaaagtaaag tctgaggatt gtcttcagaa    1500
tcagtttgt aggattcatg aataatatct tcaacttgtt cagcgaaacc taaatctaac    1560
atctgatcca cttcatcaag cacaacatgt cgcagtttag aaagatccaa tcggccactc    1620
tgcagatggt ctttgatacg accaggtgtt ccaaccaaga tgtcaatacc atttcgaata    1680
tgattaattt ggctttgata tgatgttcca ccataaaaac gcgccacggt gagtttccta    1740
gattatatct ttgaagtctc tggatacgtg gtttgccagt tcccgtgttg gagccaaaac    1800
aagtaccttt ggtgagcgg                                                 1819
```


<210> 2890
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(557)
<223> similar to gi1850850 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 2890
```
cggacgcgtg ggcggacgcg tgggctgtgg tctgccctga tagccaagag gactcagaga      60
cccgagcaca ggaggacagt ggctctgagc agcctcccga cagcgtcctg cctgacaaac     120
tgaaggtgag ctgggagaac cccagccccc aggaggcccc tgctgcatag agtgcagaac     180
cgttccaggc accctgttct gagacttctg aggctgcccc cagggagggt gggaagcccc     240
ctacaccccc acccaagatc ttatcagaga aactgaaagc ctccatgggt gagatgcagg     300
cttctgggcc acctgctcca ggcacagtgc aggtctcagt gaatggcatg gatgacagtc      360
ctgagcctgc caagccctct caggctgagg gcaccccagg aactcctcca aaggatgcaa     420
caacatccac agcactgccc ccctgggacc tgccacctca gttccatccc cgctgctcct     480
cccttgggga cttgcttggg gaaggcccgc ggcatccctt gcagcccagg gaacggctat     540
atcgggccca gctggaggtg aaggggggcct ctgaacagac ggagaaactg ttgaacaagg     600
tgctgggcag tgagccggcc cctgttagtg ccgaaacatt gttcagccag gctgtggagc     660
agctgaggca ggccacccag gtcctgcagg aaatgagaga tttgggagag cttagccagg     720
aagcacttgg gctaagggag aagcggaagg agctggtgac cctctacagg agaagtgcac     780
                                                                     789
cctagggcg
```


<210> 2891
<211> 1264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (94)...(745)
<223> similar to gi4731584 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2891
```
ctctagtgct ggaaatttat ctttgacaga ggaagaatgc ttttgaaaac agttcttacg      60
tgattttatg taacttaatt tgccctggaa aggaaatgtc tcgtctctgg tatgggaaaa     120
aagggagaag acatcaacca attaatcata aatacactct gattactaca agggaagaca     180
taaattcaaa gcaggttgct acagtgaaag cagacctgga gtctgaatct tttcgaccaa     240
acctaagtga tcccagtgaa cttttactgc cagatcaaat tgaaaagctt accaagcatc     300
ttccaccaag aacaattggc tatccatgga ctcttgttta tggtactgga aaacatggca     360
caagcttgaa aactctttat cgaacaatga caggtttaga caccccagtg ctgatggtga     420
ttaaagacag tgatggacag gtttttggtg cgttagcatc tgagccactg aaagtgagtg     480
atggctttta tggtactgga gagacctttg tttttacatt ctgtccggag tttgaggtct     540
ttaagtggac aggagataat atgttttta tcaaaggaga catggattca ctagctttcg     600
gtggtggagg aggagaattt gcgctttggc ttgatggaga tctctaccat ggaagaagcc     660
attcttgtaa aacgtttggg aatcgtacac tttctaagaa ggaagatttc tttatccaag     720
atattgaaat ctgggctttt gaataaataa aatgctctct gtcttagcag gagaatggcc     780
caaacctgac atggacaagc attgtttgga aagttcaaga agcaatacag tgtaacatgt     840
cacttgtgct ttaaaattag tctgtatcac catttattac agttataatt ttggagttta     900
tttttcaaat catgttcttg tcccagagtt ctttaggtta acactaggga ctgcgtccat     960
gtactagtat aacagcttgg gtttgttaga atttgggcaa cattttgatt ataatgacaa    1020
cttcattttc acatgttact cagttcccta ataggatggt gctcttttgt tgaacctgta    1080
ttgatttttt ttttttaac tatattgatt cgtttactaa aacagtctaa ttggggcatt    1140
gaggaaatga agactggata cttctgtatc tgtgaagttg gcacaggtaa catttggaca    1200
tgttcatctt attcttagga aggaaaaaat cacttgccaa aataatacat acttcataga    1260
                                                                    1264
ccaa
```

<210> 2892
<211> 1265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1266)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1267)...(256)
<223> similar to gi6018392 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2892
```
tttttaaagg ttttaattca atattttatt atagtccacc gtatataaga taatatttca    60
tgtagggtta cactgatgga tagtctagnc aaaagaaata tgctagcaca gggtgggtaa   120
ctgaccaact aaggatgcac tgaaccaaca gactacttca gtaagtcctt gattattgcc   180
agcttttcta taatgttcag gttctcaaag gtcactgaat tttataatta tctccaaaca   240
attttcttca tgggtcattt aaggctttgt ctaaacaggc tgggtgtgtt gccaagcgac   300
atcaaccatc tcctctgctt aattctgctt ccaaaataac ttcagtggca ccagaaaaat   360
cagcatagga gtgaagactg ttatcgcctg tcagttctac ttgtgctgta tcagatcgca   420
atttccattc tactgttcca gtctgaaaag tttgactact tgttctaata gaaatgctat   480
ctactttag gccaactgac ccacactcaa acttccagga aatataagca aaagatgatc   540
cttccttcg ggccaaatat accatgtgcc agtctgtttc aacttttctg aatatagatt   600
ccattttcca cacgccattc tcccatccag aaatggtttg attgttattt gaaactcgaa   660
cataacgatc tttcacaata ttgtaacaaa ggtggagctg tttagaaatc ttctcatttt   720
cacagggaat aaacaaggtt tcttttctct gtagacccat ttcacctcgg gctactctcc   780
aagccactga cccagatatt cttcccccaa gttctccagg tttaggggtt ttgggagata   840
taaattcaac aagctccaca attatcctct ggagaagttc tttccttctg ttttctgaca   900
aaaacagttg cctctgctta ttaagcccat taatagtgtc tcgaagtaat gcttctttaa   960
ccttagttct tctggcaatc acctcttcat gtttgcagga atatcgccaa gtgacatcaa  1020
ctacctcatc ttttgaaaat gctatgacat aggaaagctt cttgccccat cctatttcat  1080
aaaggagtgg cttgtcacag acatcttcac atgcatcaca gtgcagccac cgctgctgag  1140
aaggagaata gacttctgtc cagacatggt ctgtgtaatc ccaaacatag cgagcttcaa  1200
accctacagc tcggcagcac agtgtaaaac aattggccca ctcgccacac cgtccacatc  1260
ttgtt                                                              1265
```


<210> 2893
<211> 1113
<212> DNA
<213> Homo sapiens

1707

<220>
<221> misc_feature
<222> (1114)...(1034)
<223> similar to gi4101166 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2893
aaaaatgcgg tgccacgcgg cttttcccgt cctttccggt gtaacaccgg gcccagtttt   60
gctatttagg aggccctaaa caaatgtttc cactctcaag gccccgctgc tgaaacatgg   120
ccactttaaa gggcccgccc cttttttttt ttttgaaaaa agtccatgga ggcccatggg   180
gttgggcttg tatactagct ttgggggggt cgagtccgtc gctgtttttg tcgagatgtt   240
atggagacgg gtttctttcg aatgtcgtgg tacgcggctg gggggcatcc catatcagtc   300
actcccaggt ttatggaggg gttcttccta ctattaggga ctttttcgct tccgaagcga   360
agggcttctt caaatcaatg aaaattatta attattactg gtggttagag aaaatgaaat   420
gagccttaaa gatgattagg atgttttcat gttgggtgta tgcatccggg ggtagtcccg   480
agttaaacgt cggggcatt ccggtatagg ccccgaaaaa agtgtttgtg ggaaggaaaa   540
gttaagattt accgccgatt gaattatgat aggtgaaatg ggatttttgc cggtaggttt   600
tgtcttaagg gggtgtaccc ctgagaatag ggggaaaatc agttgaatgg aagcctccta   660
ttgatggcaa atacagcttc ctattgatag ggacataggt ggaagtgagc ttacaacgta   720
gtacgttgtc gtgtaagtac gaatgtctag tggatgagtt tggcttatac aatgcccagt   780
cagggccacc ctacgggtga aaaagaaaga tgaattccta gggcttcaga gcacttgcag   840
cagaatcatt cataatgggt ttccggggag tgtggcgaag tcagctaaat actttttaccc   900
cccgtgggga atagcgatga ttatggtgac cgaggggaa atatgctcgt gtgtctacgc   960
ctatttctac tgtaaatata tggtgtgctc acacgattaa cccttaggaa gccaaatgaa   1020
tttatagctc aaaccctacc tatgtatccc aacgtttctt tttttccgag tagcaagtac   1080
aatatgggag attattccca accccgctag gat   1113

<210> 2894
<211> 862
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (857)...(788)
<223> similar to gi2226004 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters.

<400> 2894
aacggtggct cctcgaggtc cacggtcccg gagatgggat ttcgccatgt tgcccaggct   60
gatcttgaac tcctgggctg aagatatcca ccctcctcgg cctcccaatg tgctgggatt   120
acaggcctga gccaccatgc ctgcccaag tgttcattga tgatgagaga tgggcttttc   180
gcatcaaatc acaaaaatat gctgagtaat gtgaggattc ttgcttttct ggaagctaac   240
acatagtcag tgccaaagta gtgacagaag aaatcttgag aggaagcatt tttgtcttgt   300
acttgaaaca gctgctgggc ccaccatggc tcctgtgaag atcagccatg tggtatcatt   360
ttcttctcag gatcccaagt atcctgtaga gaacttgcta aacccagata gtccaaggag   420
accttggctc ggctgccctc aggacaagag tgggcaattg aaagtagaac tacagctgga   480

```
gagggcagtg cccactggct acattgatgt gggtaactgt ggctgtgcgt tcctgcaaat    540
tgatgtgagc caccatgcct ggccaagttc tcatactatt tctgtcacat ctgcagttaa    600
tttcctccac tgaagtcttg aaagcccact aggagggttg gaatcaactt cttccaaatt  · 660
cacattcatg ttgatgctgt gacctcctcc catgaatcac cagtattctt aatggcatcc    720
aagatggtaa attatttcca gaaggtttta atttactttc ctagatccat cagaggaatc    780
gctatctata tggcaaatat agccttacag aatttatttc ttaaatagca atgcttgaaa    840
                                                                    862
gttgaattac tccttgaaaa aa
```

```
<210> 2895
<211> 1856
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1685)...(624)
<223> similar to gi4544440 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
      <400> 2895
ccatgtaacc ctcataaacc aaagcgcctt ggggccctca gtggtttgta ggattctaag      60
agctctgtgc tccctaaggt aatctgggtg cctcctccca cagagctcct ggactctaac     120
aaagtccaga accttttcat tcattgattt aaacacacat atttgggtca tcccatagct     180
tattcagagg aaattaaaag ttcagaagct tctagagtga ttgtcaatgg gggaaaatat     240
gatacaaact gtatattaaa gtgatctttt attaaactat ttactgctta gtctaaattc     300
aggtagagca gtcaaagaaa gttatccatc aactttgttg aattcatatc tttcatttta    ·360
gaataacagc agactttaag catgtattat ttttccagtg ttcagcttag tctaagactg     420
tgtgagtctg gtttgatcca ttgccgtgaa gaatacacag acagcagctg taatgagcag     480
gtgcattccc tcgtagagaa gtttttggaga aaatacactc catataaata aatgataacg     540
cagagatgtc accaaaacga tgtacgtgaa aactggaata gaacaaatca gtgcgtagca     600
gaagcaagca tgactcagtg ctgaaccact gcgtgtttct gagctcagga agtgcactaa·    660
gtggctggcc cacagcacag gccctgcgta cgtcccaaac gctgtcagga gcacggctgg.    720
gatttccacg taggtgtcta agcccacgaa gcctgcggag atgtccacgg tggcaatgtt     780
gttggagttg ccctgaaaat agaagaatgc ttgaccaaac caataatgca tcacagtaat     840·
ctcagctgca tcgtgtctca ggggcttcca gatgaattta gtcattagag tctgaatcaa     900
gaggctaaat gctaagaccg gaagattatg tggtctaaag agcaaggctg ccagaagaac     960
taatccacta tatatctccc ataaacctac agtcttgagt ttgaagtctg cagcaatgac    1020
ttgagattta agtaagtctt tggtgcccgt gaacagaatg ccaaggacaa agacataaac    1080
aaaacgagct tcaataatac ccttggaaat gtccttgctg tccggccgcc acgggaaccg    1140
gacactcccg atggccgccc ggtagcagta gacgcccagc agccccagcg ccagggcagc    1200
cttggacaca ggggagcacc ccctctgcac cagcacaaaa actacgagga gggagagggc    ·1260
agccaggaca gagagctcgg ctttgtggtc agagctggtg agccagtggc cgaggtcagg    1320
ccggtgagcc cactgcacac ctgtctggtt tagggagcgc agcagccggc agcaggccag    1380
tattagccac ·ggactggcca gcaccatcca cttctcgcgg cctttgagca cttcggaggt    1440
agagggcctt ccgtggcctt tgtctcgctc caggacatca cagccaggcc cgtcctgcca    1500
cgctgctgtg gccccgtcat gcccttgttc.cacacagagg ccacacggag gctcaccgtc    1560
atctcccaga aagtagtttc tgtaggtttc ttggctcaga gctagacaca gggtgttcac    1620
aaggaagtac caggtctggt gctcctcctc cacgaagctg ctggcgccca ggctcaagac    1680
gtggcccgcc gtccccaaca gaataagaag gtctagctct gaccaccttg agctgggatg    1740
catggggttc ttccttgggg tgtttccacc cacgagcacg ttggtcagaa cagacacacg    1800
```

gacgcgtggg tcgacccggg tactgcgggg cgtctaatgc aggggtcaat gggcgg   1856

<210> 2896
<211> 2569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (261)...(41)
<223> similar to gi4240243 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2896
ctagggatct gtaaaatcta ttttgtctta accaaagaac aaatttttga catatcttga   60
ataggatgac tataaattat gacttttaaa ttgtcgtaat ttttgtacta ttatctgata   120
ttttttatttt tatgtatttt cgtaagtagt ttagagatag tcacatttta aaaatctaag   180
atcaagcaaa tgaagcttat ttttatgtat tcatagtata aaagaccttc agtaaatagg   240
taatattttt gttttattct agaaaacagc tccttgaaca cagtgagctg gcttttcaca   300
cattgcagtt gttagtgttt actgcccttg ccattttaat tatgaggcta aagatgtttt   360
tgacaccgca catgtgtgtt atggcttcct tgatatgctc tcgacagctc tttggctggc   420
tttttcgcag agttcgtttt gagaaggtta tctttggcat tttaacagtg atgtcaatac   480
aaggttatgc aaacctccgt aatcaatgga gcataatagg agaatttaat aatttgcctc   540
aggaagaact tttacagtgg atccaaatac aataccgtac cagatgctgt ctttgcaggt   600
gccatgccta caatggcaag tgtcaagctg tttacacttc atcccattgt gaatcatcca   660
cattacgaag atgcagactt gagggctcgg acaaaaatag tttattctac atatagtcga   720
aaatctgcca aagaagtaag agataaattg ttggagttac atgtgaatta ttatgtttta   780
gaagaggcat ggtgtgttgt gagaactaag cctggttgca gtatgcttga aatctgggat   840
gtggaagacc cttccaatgc agctaaccct cccttatgta gcgtcctgct cgaagacgcc   900
aggccttact tcaccacagt atttcagaat agtgtgtaca gagtattaaa ggttaactga   960
gaaggatact acccattta ctatggcaca atgccgtgtg tcaaaaacaa tcacccttg   1020
gcttattcac attaataaaa atcacaagct ttaataacag acacttaaaa ataagataaa   1080
aatggattgg aaattttct gattactaaa aggtaaatta cttttctgtt cattgaatgt   1140
cagccttatt aagcttgtca tataagttat taaatcattc atgtcatact gcataaacaa   1200
atgttcattt cagaatttta aagagaaatg tatataaaag aacaatgaat tttaataaat   1260
caggggtatg taagtccttt ttcatccaac taggtgaatt gcttcagatt ttctctagta   1320
ccagagggta cctcctcaaa ctctttgaac cacttaaggc agaagaatgc aagctctgaa   1380
atgacatcct taaaatgctg atactggtca cagcctcttt acctctgtga ggaaattgta   1440
acagtgtgtc ttttaaggtg tttttatttt accagccctt aagaaagatc tctaatacct   1500
tttaatactt ttttttaata atttcaaggt gaagtgtttt taaaaacact ttgttttgta   1560
atgttttgaa tctcttgaga tgtgtttacc ccactagata catatttgcc actggttagt   1620
tctccatcta agctcaagag gttattcatc tctctttaga ttccagtggc ttttcttta   1680
acatccaggt aaaacagaaa ctgctatggt atacaaccaa gttttggggt taaacataat   1740
cagaaaagaa aatccagtta aatttatgaa gtgagatttt cagatcctag atcttgaata   1800
aaggaaaggt cttttcatct tgatggcccc aaagcttgtt ggtcatggtc tttatttctg   1860
gccactatct tcttaaataa tatatttta agccctcatt tatttttggt tttgggtgag   1920
gaaagtcatg ttttctaagt cctctcccct aataaaacct acccaacaat agtgctttga   1980
aaagtggtag ttatcttgaa gatactcttg ccaaatgcaa agataaacat tcttttttgtc   2040
tgctttataa atatgaaata tgccagatct atagtatttt aatgtgcatc tactttaaat   2100
gagtcatctt ggggttttta taattccctt atgttctcgc ccctctacac ttgaaataac   2160

```
aaaatgcctt aattttatgg attagttctc ttatagtaga caggcagcta tatgcagcaa    2220
aaccaataaa gttattttc aactttcata gttgtaaaat atcttataac agaatacaaa      2280
acagctaaga aaacatgcca cattttattt tagcattttc aaataatttg tttttggtgt     2340
aagcacagga taaaaaagga gagcgtcaaa gaaaagagac ataacaccta acattcataa     2400
aaattaacaa agtatatttt ggatgatgtt tttacaggaa atatttaaa taagttggta      2460
gaacttttaa aatggtactg tattagctaa taaaatattc agtacaaata tatgtttgga    2520
tttatgcatt aaaaaactaa taaaattatt tccaacttta aaaaaaaaa                 2569
```

<210> 2897
<211> 1022
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1020)...(638)
<223> similar to gi5262560 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2897
```
ttttaatttt tttacaaaca tttatttctc atggtttggg aggctgggaa gtccaatatc      60
aaggcactgg catagtccat gtctgggtaa agggcctgct ttcccggttc aaaagatagc     120
tatcttctca ctgcaccctc tcatggtgaa gggcaaagct agctctctag ggattcctat     180
caggaaacta atcccaatta caaggcctcc atcttcatga tgtcctccaa tcctaaaaac     240
caccagagac agggccttca aataccatca cattgtgggg gagagggggg ggcacggggg     300
taaggtttca acatatgaat ctgaggtggc atacactcag ccaaaacatt acacctctgg     360
cccccaaaat ccatgtcatc acatgtaaaa tatattcatc tcatcccaaa ggcctcaaaa     420
gtctcagtta attccagcat gaagccctaa tgtttaaact caaactccaa agtgtcatct     480
caatatcaca tcactcagat atggatgaga ctcaattcat gctgaggcaa aattcttctt     540
cagctccgaa ccggtgaaaa ccaaactagt catgtatttc caaaatatga gacaggcaca     600
ggatagagat tcctattcca aaagtgagaa acaggagaaa ggggtgagct cccaaacaag     660
tctgaaaccc agaaagcaaa ctgaagactt tccatattct ttagatatgt agatacttgt     720
agacctgtcc tccactattc attttcacag gtattcgaag gttgtgtgat aaatgaaagc     780
tttcccacat tctttacgta aggtttatct ccattatgag ctctttcatg tctttgaaag     840
gaactggaat aactgaacgt ttttccacat tgcttacatt cataggtttt ttctccggta     900
tgagttcttt catgtattct aatggaactg gcataattga atgctttccc acattcttta     960
cattcatagg gtttttctcc agtatgagtt ctttcatgtg ttcggacaga actaggacag    1020
tc                                                                   1022
```

<210> 2898
<211> 397
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
```

<400> 2898

```
aataaagaca gttgatgtgg ccacccaaaa accatgatag ctcttcagtt aactatgttg      60
gaagttctaa tatactccac aatgtgaaca cagtcagatt ctatttctgc atcaaaaagt     120
gttgttggaa gttgtcagat atatttcaat atagaacccc cattcaatga ctaggagatg     180
agagagcagc agagatggga aaaaaagctt tataaaattc ttctgaaatt ctgccccctt     240
tcttcataat gctcatgttt ctcatgctga gagtaattgt gcactttggg tggttagaga     300
gaaattgctt ttaggggact attttctggc tgacttgatc aatcttatat ctaaactgag     360
ctttttctca agatcttttt tctcaagatc tttttag                             397
```

<210> 2899
<211> 1106
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<400> 2899

```
tcggacgcgt gggcggacgc gtgggctcgg tcgcttagtg tgtctcctag ttcctatcct      60
gaactacaca ctgaagttcc actgtctgtc ttaattctgg gattgcttgt tgttttcatc     120
ttatctgtct gttttggggc tggtttattc gtctttgtct tgaaacgccg aaagggagtg     180
ccgagcgttc ccaggaatac caacaactta gacgtaagct cctttcaatt acagtatggg     240
tcttacaaca ctgagactca cgataaaaca gacggccatg tctacaacta tatcccccca     300
cctgtggtac agatgtgcca aaaccccatc tacatggcag gaagggaagg gagacccagt     360
agcctattac cgaaacctgg caaggagttt cagctattag gcaacctgga ggagaaaaaa     420
gaagagccag ccacacctgc ttacacaata agtgccactg agctgctaga aaagcaggcc     480
acaccaagag agcctgagct gctgtatcaa aatattgctg agcgagtcaa ggaacttccc     540
agcgcaggcc tagtccacta taacttttgt accttaccta aaagggcagt ttgcccccttc    600
ctatgaatct cgacgccaaa accaagacag aatcaataaa accgttttat atggaactcc     660
caggaaatgc tttgtggggc agtcaaaacc caaccaccct ttactgcaag ctaagccgca     720
atcagaaccg gactacctcg aagttctgga aaaacaaact gcaatcagtc agctgtgaag     780
ggaaatcatt tacaaccta aggcatcaga ggatgctgct ccgaactgtt ggaaacaagg      840
acattagctt ttgtgtttgt ttttgttctc cctttcccag tgttaatggg ggactttgaa     900
aatgtttggg agataggatg aagtcatgat tttgcttttg caagttttcc tttaaattat     960
ttctctctcg ctctcctctt cccactccca cactgaaaaa caaagaagaa aaaagaaaca    1020
aaaccataaa caaaatctat gaagaaatgc attgtagaaa cattcatgtc cactgatggt   1080
tcctaagaag agaagggaaa aagaaa                                         1106
```

<210> 2900
<211> 1999
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (127)...(1415)
<223> similar to gi3877186 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2900
ctggacactc aggtggcacc aggtttcttg tgctcccagc gccctgccca cccttggagc   60
caggcacaca gtgacgactc ggaggccacc agcctgtcct ctgtggccta tgcctttctg   120
cccgactccc acagctacac catgcaggaa ttcgcccggc gttacttccc ggaggtccca   180
ggccttgctg ggccagactg atggaggtgc cgcaggaaag gacacggaca gcctggtgca   240
gtacaccaag gctcccatcc aggagtcgct cctcagcctc agtgatgatg tgagcaagct   300
ggctgtagcc agcttcctgg ccctgatgcg gtttatgggt gaccagtcca agccccgggg   360
caaggatgag atggatctgc tctatgaact gctgaagctg tgccagcagg agaagctgag   420
ggatgagatt tactgccagg ttatcaagca ggtcacggga cacccccggc cggaacactg   480
cactcgaggc tggagcttcc tcagccttct cacaggcttc ttcccccccgt cgaccaggct   540
gatgccctac ctgaccaagt ttctgcagga ttcaggcccc agccaagagc tggcccggag   600
cagccaggag cacctccagc gcacagtcaa atatggggggg cgccggcgga tgcccccacc   660
gggtgaaatg aaggctttcc tgaaaggaca agcgattcgc ctgcttctta ttcacctgcc   720
ggggggtgtgt gattatagga cgaatatcca gactttcaca tctgtccaca tgcccaggta   780
gcagcagaag tgcaggagga gctgtgccgg caaatgggta tcacggagcc tcaggaagtg   840
caggaattcg ccctcttcct catcaaagag aagagccagc tggtgcggcc cctgcagccc   900
gccgaatacc tcaacagcgt ggtagtggac caggacgtga gcctgcacag ccggcggctc   960
cactgggaga ccccactgca cttcgataac tccacctaca tcagcaccca ctacagccag   1020
gtgctgtggg actaccttca ggggaagctg ccagtcagcg ccaaggcaga cgcgcagctc   1080
gccaggctgg ccgccctgca gcacctcagc aaggccaaca ggaatacccc ctcagggcag   1140
gacctgctag cttacgtgcc aaagcagctg caacggcagg tgaacacggc ctccatcaag   1200
aacctgatgg gtcaggagct gagacggctg gaaggacaca gcccccagga agcacagatc   1260
agcttcattg aggccatgag ccagctgccc ctcttcggct acaccgtcta tggggtgctg   1320
cgagtgagca tgcaggccct gtccggaccc actctcctgg ggctcaaccg ccagcatctc   1380
atcctcatgg accccagctc ccagagcctg tactgccgca ttgccctgaa gagcctgcag   1440
cggctccacc tgctaagccc tctggaggag aaggggcccc ctggcctgga agtcaactat   1500
ggctcagctg acaaccccca gaccatctgg tttgagctgc cacaggccca ggagctgcta   1560
tacaccactg tcttcctgat agacagcagt gcctcttgca ctgagtggcc cagcatcaac   1620
tgagaggagt gcaggccggg gagagaagag gatgaggcct cccccggccc aagtctcacc   1680
cacatggtct gccttggatg ctatcagatc actgttctag aacctgcctc agcacagccc   1740
agccggccca catgcaggcc atgaggcagg ggctgctatc acgtcaccag caggcaaaga   1800
aaacagccag accctctcca ggacggcctg gggccaaagc gggctgcagg aactcggctg   1860
gggcacctga ggttgcccag tctgagggag atgcccaccc gaccccaggc tccgcccagg   1920
ccccacatta gcacaagccc aggcatggga gaaacagctg ctgaggaaat aaaactccct   1980
ggagaagtcg acgcggccg   1999

<210> 2901

```
<211> 2646
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2647)...(2273)
<223> similar to gi1710216 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


    <400> 2901
gtcacagcac cggcagcggc gcctgcagga ccatggcaag gagaggaagg agcttttctc      60
cacaaccact tcccagtgtg cagagaagaa accagaagcc agtggcccag aggctgagcc     120
ctgcccagag ctccacacgg agccagtgga gccactgact cgggcatcct cggcaggccc     180
tgagggtgga ggagtccgcc ccgagcagcc ctttattgtg ctgggacagg aggagtacgg     240
ggaacaccac tcatccatca tgcactgcag agtggattgc tctgggagga gagtcgccag     300
cttagacgta gatggggtca tcaaagtgtg gtccttcaac cccatcatgc agaccaaagc     360
atcctccatt tccaaatcac cgctgctgtc tttggaatgg gccaccaaac gggacagact     420
gctcttgctg ggcagtggtg tgggaacagt gcgtctctat gacacggaag ccaagaagaa     480
tctctgtgaa atcaatatca acgacaacat gcccagaatc ctgtctcttg cgtgcagccc     540
caacggggcc tctttcgtct gttcggcagc agctccgagc ctcacttccc aggtggactt     600
ctcagcacca gacatcggca gcaagggcat gaaccaggtt cctggcaggc tgctgctgtg     660
ggacacgaaa accatgaagc agcagctcca gttctccctg gatccagaac ccattgctat     720
caactgtaca gccttcaatc acaacgggaa cctgctggtc acaggggcag ctgatggcgt     780
catccggctg tttgacatgc agcagcatga gtgcgcgatg agctggaggg cccactacgg     840
ggaggtctac tctgtggagt tcagctatga tgagaacacc gtgtacagca tcggcgagga     900
cgggaagttc atccagtgga acatccacaa gagtggcctc aaggtatccg agtacagcct     960
cccctcagat gccacgggcc cctttgtgct gtctggatac agcggctaca agcaggttca    1020
agtccccagg ggccgactct tcgcttttga ctcggaggga aattacatgc tgacatgttc    1080
tgccacaggc ggcgtcatct acaagctggg tggcgatgag aaggttctgg agagctgctt    1140
gagcctaggt ggccaccgag cccctgtggt caccgtggac tggagcactg ccatggactg    1200
tgggacctgc ctcaccgcct ccatggatgg caagatcaag ctgaccaccc tcctggccca    1260
taaagcctga tgacttgccc caagggccac ccgaggaagc agtattatct gcggtggggg    1320
gaggagatat aggacaggaa aaccacgtgc tccactccag ctccctgcca gtgcagtgac    1380
tctgcaggga aagactggca aggaggctca ggtgcttcca tctgtggtga ctggaatggg    1440
acccacgtgg agtaggtgac atatgcttcc cagagactgg tattgtggct gtgccaggag    1500
tacatgtgag actatgggag gaaagctccg gaagaaggag aaacattgca gtggctactg    1560
tgttggccca gtagaaattg acagtatttt gtatatatgt gcccatttat cttttttcttt    1620
tttaaaaaaa gagaatactc ttgtggtccc ctgatgtctc tttctaggat gtgtgtcact    1680
ttgcttcagt gacagccctc ccacccagcc tggctctgct ggccccgaac tgaacctctc    1740
caggctctcc tgttgctttg ccatggagcc aggtcagctc tctgtctgtt ctgctgggta    1800
acaaggtttg gcagttcctg tttctctggg cttaagtcaa ggccacagaa ttctttttct    1860
tccctgaaag ctggcagctt ttgttacaga agattctcag gatgaaggca ggggctgagg    1920
cctctgctac tggctgcccc tttccatcca gtggctgctg tttcccaaga cgggctaagc    1980
gtttcttatc tgaaatgctt gggacaggag tgttacagat tttggatttt ttcagacttt    2040
ggaatatttg catatataca taatgaggta tcttggtagg tctcatgtct aaacatgaaa    2100
ttcattcatg ttttatatat accttataca tgtagcctga aggtaactct atacagtatt    2160
ttaaataatt ttgtacatga aacaaagtat tgattgtggt caggtgtggt attttccact    2220
tgtggtgtca tgttggtgct cacagttttg gggccgggca cggtggctca cgtctgtaat    2280
cccagcactt tgggaggcca aggtgggtgg atcacttaag gtcaggagct tgagaccagc    2340
ctggccaaca tggtgaaacc ccatctctac taaaaatacc aaaattagcc aggcatggtg    2400
gcaggtgcct ataatcccag ctactctgga ggctggggca ggagaatcac ttgagcccag    2460
gaggcggagg ttgcagtgag ccgagatcac gccactggga gaacccaact caaaaaaaaa    2520
aaaagtttgg ggttatggac catttggat ttgggatttt ggggtaaggg accctaaccc     2580
```

1714

tgaccttttt tatttggggg gctcctctaa ttcttccaac ggaacatttt tggggaaaga   2640

tgaggg   2646

<210> 2902
<211> 2560
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (25)...(838)
<223> similar to gi3881275 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2902

gcggccgcgg	cataggggg	cactgtggac	ttgcgcgagt	atgctggctg	tgtcagtgct	60
ggccgcagtc	cgcggcggca	gacgacggtg	aggcgcgtcc	gcgagagcaa	cgtcctccac	120
gagaagtcca	aggggaagac	gcgcgaggga	gccgaggaca	agatgaccag	cggcgacgtg	180
ctgtccaacc	gcaagatgtt	ctacctgctc	aagaccgcct	tccccagcgt	ccagattaat	240
actgaggaac	acgtggatgc	agcttgatca	ggaggttatc	ttgtggggat	cataagattc	300
ctgaggatat	cctaaaggga	agtaactact	ccctaaagag	gtacccagca	gaaagtgtta	360
ctgtctggat	tgaccccact	tgatgctaca	caggaatatt	acagaggatc	tttcgaaagt	420
acgtcactac	tatggtgtgt	gtggctgtaa	atggtaaacc	catgctagga	gttatacata	480
agccattttc	cgaatataca	gcttgggcaa	tggtagatgg	tggttcaaat	gtgaaagccc	540
gctcttccta	caatgagaag	accccaagga	tcgttgtgtc	tcgttcccat	tcagggatgg	600
tcaaacaggt	cgctcttcag	acttttggaa	accagactac	aattatccca	gctggtggtg	660
ctggttataa	agttttagca	cttttggatg	tgcctgataa	gagtcaagaa	aaagctgatt	720
tatacatcca	tgtgacatac	atcaaaaagt	gggatatatg	tgctggtaat	gccatcttaa	780
aagccctagg	ggggcatatg	actaccctga	gtggtgaaga	aatcagttac	actggttcag	840
acggcattga	aggggactc	cttgctagca	tcagaatgaa	ccaccaggcc	ctggtcagaa	900
aactcccaga	tctagaaaag	acaggacata	aatgagcata	actgattaca	gggtacagtt	960
cttcacagct	gaaatggtta	gcctgagatg	ctggaagctt	caaaggattg	gtggagacta	1020
tgcatggtta	aggccatccc	gaacttttta	aagtatttat	gaagcatcag	agacttattt	1080
tccctgtaat	agaatgcaaa	atcagggaaa	atgggttgct	ttgtgtctca	agtattgtct	1140
ttatttttga	gactattttc	atacagttgt	catacacaag	gcgcatatat	atatttgtga	1200
attaaaatct	gtagctgagt	ctacattgtt	atgagtcacc	attttcacac	aacatcatga	1260
atcttcactg	ttagtacttt	catatagaat	tcggttgaag	gaaagattga	tttttgtgta	1320
gatgtttaat	ataactttac	aactatatct	cattgaaaat	aaagtcattg	gggatttta	1380
cctctaattt	ggatggaaag	cacaagaagc	cacacattca	ttaatatgca	acaaatgttg	1440
tatttatgtt	actgaatatt	tctatggatt	aaaatagaaa	aagtttaatt	gatttttct	1500
tttaaatttt	aataacaggt	tcaccagctg	gtagaaaata	gagacacatg	atgactttgc	1560
attggtaata	atttcctgtg	tgtatgtgtg	tgtggttgtt	ttgttttat	aaagaaatgt	1620
tgttgtttgt	acccatggag	tttatcattt	ttgccatgct	tgctattttt	ctatttaccc	1680
atagagaaag	atgctatggt	tgatcctttt	ccttctgtcc	atcaacatta	atcattaact	1740
ttggaagggt	cgggtttaag	gtttcagggt	tagcactata	gttttggttc	attttctcat	1800
taacgataaa	atatgctgta	aggcactata	agaatataaa	tgattctatt	acaattgaaa	1860
gttacttgac	attacatgaa	ttgaactgcc	tttcattatc	ttcagacact	ttgttttagt	1920
attttttttt	taatttgcta	ggtttgtata	tagaagatcc	tttcattatc	aagaatgagt	1980
atggttgctt	ttgccatggt	tgcttttact	attaataaat	gtatctagcc	tacccaaact	2040
ctgtagtaac	ttttgagatt	ctcttaattt	cccctcagat	taaaatagag	aaggttgaag	2100

```
gtactttttg atgaaatttt tttctagtct ggttagaaaa aaaaagttgt gacatattca    2160
ttgtgttacc gtaactagaa ccttgctttg tgaactgtct ttcattggga tgtatggttt    2220
ctctcaatgt gaaatctgga aacttcatgt aaactaccca tgccgttatt tcatgtgact    2280
ccagtgccct tgtattccat aacatgctga tgagagggat ttctcacggt ttctttcttt    2340
gctaaatttt ttaaccataa agcagcttac cctttatttt cccatcttgg aagtaaaatt    2400
gaccaaagaa tgtacgttct agcctggtgg aatgtgcata ctttaggttt gtatgttaca    2460
ttgtccaaag ccctttactt tcttattagt aaactgaatc taatatgaca caaatgtttt    2520
cacccaatct cttgcaactg gtcaaattcg agaaggtgtg                          2560
```

```
        <400> 2903
tttttttttt ttatcatcaa atcggatctt tactcaacta tggtgaatgc catggaacat      60
aatacaaaca tggatgttac tggagtttat atttttaaat tcaaaattga aaaaatacaa     120
attgaaaaat agaaatattt aattattaaa attttctctt tcataattct ttttgcgcct     180
ttgagttgaa gccaaaaggc tggccgtctt cccttccaca ccgagatgtc agtgtcaggc     240
ctcgggtggc acggtgggga cgggcagttt agaattcagc cttgaatcct tcaactggga     300
acgatgttta atttgattca ggttcgtaac ggaaaacagc tgttcacaag cgtgggtact     360
cccaaacaca gatattcagg acaactactg gagatagttg tagaatctca ccatcttcac     420
acagacttgt atttaggaac cagcaccgta ttgcactgta gttcaattac tatttatggt     480
ctgcattcac acaagaaaca tctgccaaca aaggcaaact ggacaatgtc tgttccttct     540
catgagtctg gattccgaga gcctttgggg gaatttggtc ttcaacccca ggacgtaggt     600
gaatacagtc cgggccacct ctttcatttc tgaaagccga ctgcagcaca ggaaagagta     660
aaggtttttt ttccttgccg gtggattccc caggaccaag catacaccat catacattca     720
agtagctgtt tgtggacatc cttgcggaga aatattcagt gttcagaacg gtcataacct     780
tgaccagaag tctttgacta accttctcag gggaacccac tgtggctttt gcctgattta     840
aaatgaacca agttggttaa cttgaacagt tcagatttct tccacaacca agtcacagag     900
cttctgtgaa atctctcagg tcaagtcacc atcaactcac tcgtgactga agtccaggag     960
cggaagtgtc gagagcatcg cggtgtggtt ctggttcaag ttgcttcaga accaagtcaa    1020
actccttgat gatggatgca acggaccccа acttcccgtg tccttgccaa aatgtgtcgc    1080
cttggatcaa ggtgtcctgc caagtccccc tgtcatgacg ctgtcctgta gttgtgcttc    1140
gggaactctg gccagtctat gtgaaacttt tctctcaata tacaaaaaaa attagtcctt    1200
tcccagtgtt gggcctgcct tggcaccatg ccacagactt cttcggtcac atcaagattc    1260
ttaacaccac aaataaataa agctaactgg gtggtaatag tttatgagca gcgaaagaaa    1320
aggccacaat caatttgact cttttcaagca actggacttg taaatccccc gagttatctc    1380
caactcactg tgcaacgcaa atgcccgtta gacttaaata acggtctcaa cagtcatgtg    1440
tttctgtgca ggacacgtca ctctgctcct ttataaactt gccatctgct gtagctctga    1500
atgcccaggt cattcttctc acgtgattcc ggaacggcgt accactgccg cgccacttct    1560
gttaattcgc ttttcaaaac aaaccctatt gacatttgag tccctttttc agttcgttga    1620
ggatggcatc tcgagtctgt tctgtgtact ggtcgtagct cttactatgc ttt          1673
```

```
<210> 2904
<211> 2142
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2143)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2014)...(719)
<223> similar to gi1778861 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 2904
tttttttttt ttacaggctc aaaaatcaag tttaatatca aaagaagtta cacataaagg     60
tttttacatt tccgaaaatc tgatagttaa aatatcccgt ctggtgttga ttgtgataca    120
cttaagtgaa cccctgaaaa cctttatttt gaaattgaag tttttgctca gaaactgggc    180
agaacttttc acattctgac agaagataaa acttaagtct aaaaaatatt cggtaacttt    240
tttctcaaaa acattaagta ctttagaata taaagcagaa actcttacca agcatgtgta    300
cccatcagcc acacctcctg tctttggggg aatttggtta cttggagctc tgtgggtgct    360
atatgaatcc tagagacagc aaacttctgc tgtacagcta acttacaagg gcctgaaccc    420
ggctgatggc agcaagcctg ctacagtcca gaagagtgcg acttcttata tttacatatg    480
aacgcatctg tctttccaag gctaactttg tagcattcca ctggtaccaa ggagccaaat    540
ggtgacattc tgtctaagaa tttgtggtta ctggcttcga atgaagttga cgctgtcttg    600
aatgcaccag tttttttcttc aggattcaag cacttttaa ttccaggttc atctgtgtga    660
ctgtccttgg aattgaaagg gatgttgctc tctttacaat ctgtaaggcg cctgtggtga    720
tcttcactaa gcaacaatac aatggttccg ccaacatgaa gcactctttc catttcttgt    780
agaatgcttt tgatgtcttt tcctaactta aacttttttcc caaatggaat gtcagaaata    840
ataatatcaa cactttctga aggcaatggc aattctataa cagagatttt aagtaattca    900
attttatcct caaggcctgc agctttcaga ttgtcccaag tacctagtaa ctgtgagtcg    960
ctgacatcag cacctacata atacacatct ggccattctt tagcagcttc caaaagtatt   1020
gttccaagtc cacacattgg atctaaaaca aatgcaccag ccccactgtc aggcccagtc   1080
gtgctcgaga tagggagaa aagacatcca ccacttgata tgtctacaga ggaagcagag   1140
tcctcagtgc acagccaggt ttcagtcaga gccatatggt accttaatgt cagccagaga   1200
tgccattgcc cacgctattg tagatcgcag tccagctgtc ttgatgtaag ctctgctggc   1260
tagggaaacc ctgaacacag gaatccccac cacagagtaa atgtcattta gatgtataaa   1320
gatctctaat tgtggattcc tcaagtctgc tttccatcca aagtgtttca taatagcaat   1380
tccaattact tttcctacct cctgtgcagt gaaggccttt ccaatagttc cactgcagcg   1440
acaagatact ctgaaagtca agtcattctg attatgagta tcaattgctt tctctatgtc   1500
attctgaaat tcttcttctt gaaacttttc gcttttagtg gtaaaatctc tttgctccag   1560
agtttcttct tttatttgtt tttccagctg gcagtcccta ttctcttcta tcttttgcat   1620
ttgttctatt tttaatttct ttgcaatgat ttcatttttct cccactttttc ttttttagttg   1680
gttatcatct ctctgagaaa gttttttcctt ttttgcatca agttcaagaa gattttttcca   1740
aattgaaatg gcattcaacc aacttcctgg atcttcattt ataagtcttt gcatttcatt   1800
aaatattttt cctttactta cagaagaaat aataagtgga aactgctttt taatcagcaa   1860
aaataatctt tctgcagatt ttaatttctt caacatattc aaatcagaac aggtggtgaa   1920
aaaaacccttt cctgaaatat attcaacctg cgtggccgcc agccgcgccc gcacctctcg   1980
```

1717

```
cattacgaac ggctccaggc cgcgacccgc agtgcagaag aatcgggcgc cagcctcagg    2040
cccggaccct ggctctccac acgaaatcgt ggncccgggn nttnctnnnn ngtngntcnt    2100
ncagtaccan ctacggatca ggatgngccg gcccgctctc cc                       2142
```

```
        <210> 2905
        <211> 2502
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2)...(679)
        <223> similar to gi2352427 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 2905
gggcaatggc atcaacgtcc tcaaaattgc ccccgaatca gccatcaaat tcatggccta      60
tgagcagatc aagcgccttg tttggtagtg accaggagac tcttgaggat tcacgagagg     120
cttgtggcag ggtccttggc aggggccatc gcccagagca gcatctaccc aatggaggtc     180
ctgaagaccc ggatggcgct gcggaagaca ggccagtact caggaatgct ggactgcgcc     240
aggaggatcc tggccagaga gggggtggcc gccttctaca aaggctatgt ccccaacatg     300
ctgggcatca tcccctatgc cggcatcgac cttgcagtct acgagacgct caagaatgcc     360
tggctgcagc actatgcagt gaacagcgcg gaccccggcg tgtttgtgct cctggcctgt     420
ggcaccatgt ccagtacctg tggccagctg gccagctacc ccctggccct agtcaggacc     480
cggatgcagg cgcaagcctc tattgagggc gctccggagg tgaccatgag cagcctcttc     540
aaacatatcc tgcggaccga ggggggcctc gggctgtaca gggggctggc ccccaacttc     600
atgaaggtca tcccagctgt gagcatcagc tacgtggtct acgagaacct gaagatcacc     660
ctgggcgtgc agtcgcggtg acgggggggag ggccgcccgg cagtggactc gctgatcctg      720
ggccgcagcc tggggtgtgc agccatctca ttctgtgaat gtgccaacac taagctgtct     780
cgagccaagc tgtgaaaacc ctagacgcac ccgcagggag ggtggggaga gctggcaggc     840
ccagggcttg tcctgctgac cccagcagac cctcctgttg gttccagcga agaccacagg     900
cattccttag ggtccagggt cagcaggctc cgggctcaca tgtgtaagga caggacattt     960
tctgcagtgc ctgccaatag tgagcttgga gcctggaggc cggcttagtt cttccatttc    1020
accccttgcag ccagctgttg gccacggccc ctgccctctg gtctgccgtg catctccctg    1080
tgccctcttg ctgcctgcct gtctgctgag gtaaggtggg aggagggcta cagcccacat    1140
cccacccccct cgtccaatcc cataatccat gatgaaaggt gaggtcacgt ggcctcccag    1200
gcctgacttc ccaacctaca gcattgacgc caacttggct gtgaaggaag aggaaaggat    1260
ctggccttgt ggtcactggc atctgagccc tgctgatggc tggggctctc gggcatgctt    1320
gggagtgcag ggggctcggg ctgcctggcc tggctgcaca gaaggcaagt gctggggctc    1380
atggtgctct gagctggcct ggaccctgtc aggatgggcc ccacctcaga accaaactca    1440
ctgtccccac tgtggcatga gggcagtgga gcaccatgtt tgagggcgaa gggcagagcg    1500
tttgtgtgtt ctggggaggg aaggaaaagg tgttggaggc cttaattatg gactgttggg    1560
aaaagggttt tgtccagaag dacaagccgg acaaatgagc gacttctgtg cttccagagg    1620
aagacgaggg agcaggagct tggctgactg ctcagagtct gttctgacgc cctgggggtt    1680
cctgtccaac cccagcaggg gcgcagcggg accagcccca cattccactt gtgtcactgc    1740
ttggaaccta tttatttgt atttatttga acagagttat gtcctaacta tttttataga     1800
tttgtttaat taatagcttg tcattttcaa gttcattttt tattcatatt tatgttcatg    1860
gttgattgta ccttcccaag cccgcccagt gggatgggag gaggaggaga aggggggcct    1920
tgggccgctg cagtcacatc tgtccagaga aattcctttt gggactggag gcagaaaagc    1980
ggccagaagg cagcagccct ggctcctttc ctttggcagg ttggggaagg gcttgccccc    2040
```

1718

```
agccttagga tttcagggtt tgactggggg cgtggagaga gagggaggaa cctcaataac    2100
cttgaaggtg gaatccagtt atttcctcgc gctgccgagg gtttctttat ttcactcttt    2160
tctgaatgtc aaggcagtga ggtgcctctc actgtgtatt tgtggtgggc gggggctgga    2220
ggagagggtg gggggctggc tccgtccccct cccagccttt tgctgccctt gcttaacaat.   2280
gccggccaac tggcgacctc acggttgcac ttccattcca ccagaatgac ctgatgagga    2340
aatcttcaat aggatgcaaa gatcaatgca aaaattgtta tatatgaaca tataactgga    2400
gctcgtccaa aaagcacact acgacagaac tggacgttag aagttgtcat tataaagcag    2460
ccttctaata aagttgtttg caaagctgaa aaaaaaaaa aa                       2502
```

<210> 2906
<211> 2366
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (161)...(1631)
<223> similar to gi186396 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 2906
gcactatgtc acattgccgt ggggcagcag atgaacctgc actggctgca caagatcggg     60
ctggtggtca tcctggcttc cacggtggtg gccatgtcgg ccgtggccca gctgtgggag    120
gacgagtggg aggtgctgct gatctccctg cagggcacag cgccattcct gcatgtgggg    180
gctgtggcag cagtcaccat gctctcctgg atcgtggcag gacagttcgc ccgtgcagag    240
cggacctcct cccaggtgac cattctctgt accttcttca ccgtggtgtt tgccctctac    300
ctggcccctc tcaccatctc ctctccctgc atcatggaga agaaagacct cggccccaag    360
cctgctctca ttggccaccg cggggccccc atgctggctc cagagcacac gctcatgtcc    420
ttccggaagg ccctcgagca gaagctgtac gggctccagg ctgacattac catcagcctg    480
gacggcgtgc ccttcctcat gcatgacacc accctgcggc gcaccaccaa cgtggaggag    540
gagttcccgg agctggcccg caggcctgcc tccatgctta actggaccac cctgcagaga    600
ctcaacgctg gccagtggtt cctgaagact gaccccttct ggacagccag ctccctgtca    660
ccctccgacc acagagaggc ccagaaccag tccatctgca gcctggcaga gctcctggag    720
ctggccaagg gcaatgccac actgctgctc aacctgcgtg acccgccccg ggagcacccc    780
taccgcagca gttttatcaa cgtgactctg gaggccgtgc tgcactccgg cttcccccag    840
caccaggtca tgtggctgcc tagcaggcag aggcccctgg tgcggaaggt ggctcccggc    900
ttccaacaga catcaggctc caaggaggca gtcgccagcc tgcggagagg ccacatccag    960
cggctgaacc tgcgctacac tcaggtgtcc cgccaggagc tcagggacta cgcgtcctgg   1020
aacctgagtg tgaacctcta cacagtcaac gcaccgtggc tcttctccct gctgtggtgt   1080
gcgggggtcc catccgtcac ctctgacaac tcccacaccc tgtcccaggt gccttccccc   1140
ctctggatca tgccccccgga cgagtactgt ctcatgtggg tcactgccga cctggtctcc   1200
ttcaccctca tcgtgggcat cttcgtgctc cagaagtggc gcctgggtgg catacggagc   1260
tacaaccctg agcagatcat gctgagtgct gcggtgcgcc ggaccagccg ggacgtcagc   1320
atcatgaagg agaagcttat tttctcagag atcagcgatg gtgtagaggt ctccgatgtg   1380
ctctccgtat gttcagacaa cagttatgac acatatgcca acagcaccgc cacccctgtg   1440
ggcccccgag ggggtggcag ccacaccaag accctcatag agcggagtgg gcgttagctg   1500
aagacatgtc tgtcccacct gtacctgaca cagaagctgg ggagcctagg agagctggtg   1560
gaagtgtgtc tgaactcgga gtgctctggg agcgggctcc acagcctcct tgtgggctcc   1620
agccccttgt cagccgcagc ctctcttgag ggggactccc tgtctcctga ggcccagctg   1680
ggccaggact ccatcctttc agatgccccct gcaggcctgg ggctccttct gggaagtatg   1740
```

```
gggcctaggg cttggtcccc ctcttctgag gccctctcct gtatcccgac ctggaagctt    1800
tgatgggtca tgggccatgc cataccccct gtggcaatgg agtgtgtgga tgctcacctg    1860
tgccatctgt cctcctgtct gtgccaggag gcacctgagt tctctgctgt tatcctgccc    1920
caagggcctg ggccgagcct ctacctgaag caactctgct cttcctgtca gtctcaaagc    1980
acaaggaggt tcagcccagg aggaagccag ctgcaatgtg gagacacgtc ctcctcccca    2040
acccacctca tgccaccgcc aaccccctgc cccaggagcg ggcctgagcc acgtcccta    2100
ggagcagctg gagatggcca aaagagtgag ctcaggacta ctggatccca tgcccaggtg    2160
tccagcagac ctcaaggcag aagggtcacc taacccagga gttccacaga ctgatgtgac    2220
ctcaggttcc cacatcagtg gccaccaggc agggcccacc tggtagaagt gttctggata    2280
tggcccaggg tgggtgtgtg gctaagtggg cctgaacaga gggaaccta gggcccttgg    2340
                                                                     2340
ccaatgtgat taaagctgcc atcttg
```

<210> 2907
<211> 1594
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1289)
<223> similar to gi984814 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2907
```
gttgtgagtg acaccctaaa agaagctggc acccactaca tcatggctac tgatggtacc    60
cagttgcacc acattgagct caccgcagat ggctccatct ccttcccaag tccagatgct    120
ctggcctctg gtgccaaatg gcccctgctg cagtgtgggg gactgcccag agacggccct    180
gagccccat ctccagccaa gacccactgc gtaggggact cccagagctc tgcctcctca    240
cctcctgcaa ccagcaaagc cctgggcctg gcagtgcccc cgtcaccgcc atctgcagcc    300
actgctgcat caaagaagtt ttcctgcaag atctgtgccg aggccttccc tggccgagct    360
gagatggaga gtcacaagcg ggcccacgct gggcctggtg ccttcaagtg ccccgactgc    420
cccttcagtg cccgccagtg gcccgaggtc cgggcgcaca tggcacagca ctcaagccta    480
cggccccacc agtgtagcca gtgcagcttt gcctccaaga acaagaagga cctgcgtcgg    540
cacatgctga ctcacacaaa ggagaagcct tttgcatgcc acctctgcgg gcagcgtttc    600
aaccgtaacg ggcacctcaa gttccacatc cagcggctgc acagtcctga tgggaggaag    660
tcaggaaccc ctacagcccg ggcccctacc cagaccccaa cccagaccat catcctgaac    720
agtgatgacg aaacactggc caccctgcac actgcactcc agtccagtca cggggtcctg    780
ggcccagagc ggctacagca ggcactgagc caggaacaca tcatcgttgc ccaggaacag    840
acagtgacca atcaggagga agccgcctac atccaagaga tcaccacggc agatggccag    900
accgtacagc acctggtgac ctccgacaac caggtgcagt atatcatctc ccaggatggt    960
gtccagcacc tgctccccca ggaatatgtt gtggtccctg aaggccatca catccaggta    1020
caggagggcc agatcacaca catccagtat gaacaaggag ccccgttcct tcaggagtcc    1080
cagatccagt atgtgcctgt gtccccaggc cagcagcttg tcacacaggc tcaacttgag    1140
gctgcagcac actcagctgt cacagcagtg gctgatgctg ccatggccca agcccagggc    1200
ctgtttggta cagacgagac agtgcccgaa cacattcaac agctgcagca ccagggcatc    1260
gagtacgacg tcatcaccct ggccgatgac tgagccccga gggcccaaca cagatcatgg    1320
atttgcggcc agctctcctg ggggtagggg gccaccagga ctcacctccc tcttcattta    1380
ggatctccag atactggata gccagcatcc tctcattccc agggagccag acctgtgctg    1440
ttggggttag gggcagccat gggccccagc caggacatgc tgggtgcccc agcctgcagg    1500
caggctttgg gagagaaatt tatttttgtt tgggtggacc cactggcctg tcagtctcaa    1560
```

1720

taaagggacc ggagtccagt cctgaaaaaa aaaa   1594

<210> 2908
<211> 1632
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (70)...(1249)
<223> similar to gi3638956 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2908
gccagggggtc caggggaggc caggggtgag aggccaggcc cagcctgcca gctgtgtggg   60
gggccgacag gtgaggggcc gtgttgtggg gcaggagggc cgggtggggg gccccctgctg   120
ccccccacggc tactgtactc atgccgcctc tgcaccttcg tgtcccacta ctcgagccac   180
ctgaagcggc acatgcagac acacagcgga gagaagccgt tccgctgtgg ccgctgcccc   240
tacgcctcag cccagctcgt caacctgaca cgacataccc gcacccacac tggcgagaag   300
ccctaccgct gtccccactg cccctttgcc tgcagcagcc tgggcaacct gaggcggcat   360
cagcgtaccc acgcagggcc ccccactcct ccctgcccga cctgtggctt ccgctgctgt   420
actccacgac cagcccggcc tcccagtccc acagagcagg aggggcggt gccccggcga   480
cctgaagatg ctctgctcct tccagatttg agcctccatg tgccaccagg tggtgccagt   540
ttcctgccag actgtgggca gctgcggggt gaaggggagg gcctctgcgg gactggatca   600
gaaccactgc cagagctgct attcccttgg acctgccggg gctgtggaca agagctggag   660
gagggtgagg gtagtcggct gggagctgcc atgtgtgggc gctgcatgcg aggagaggct   720
ggagggggtg ccagtggggg gccccagggc cccagtgaca aaggctttgc ctgtagcctc   780
tgccctttg ccactcacta tcccaaccac ctggcccggc acatgaagac acacagtggt   840
gagaagccct tccgctgcgc ccgctgtcct tatgcctctg ctcatctgga taacctgaaa   900
cggcaccagc gcgtccatac aggagagaag ccctacaagt gccccctctg cccttatgcc   960
tgtggcaatc tggccaacct caagcgtcat ggtcgcatcc actctggtga caaacctttt   1020
cggtgtagcc tttgcaacta cagctgcaac cagagcatga acctcaaacg tcacatgctg   1080
cggcacacag gcgagaagcc cttccgctgt gccacctgcg cctataccac gggccactgg   1140
gacaactaca agcgccacca gaaggtgcat ggccacggtg gggcaggagg gcctggtctc   1200
tctgcctctg agggctgggc cccacctcat agcccaccct ctgtttgag ctctcggggc   1260
ccaccagccc tggggactgc tggcagccgg gctgtccaca cagactcatc ctgaactagg   1320
tccttcttcc ccatgtttta tacagacgga ccagaagcca ccttttttctc ccccgctggc   1380
caggggctcc acacagacta acgtaggcac tataaggacc agcccaaccc catgggcggg   1440
ggggcccata tggaccaggg gaccttgcct tgactgaggc acttcacgag ctcagtgaga   1500
agggccctgt attcacctcc actgccccca ggggctgtgg acaaaccggc tgggggactg   1560
cccagcctcc cacctgttta tttaacttat ttcagtgctt tataataaag gaaacactaa   1620
caaaaaaaaa aa   1632

<210> 2909
<211> 809
<212> DNA

1721

<213> Homo sapiens

<220>
<221> misc_feature
<222> (812)...(322)
<223> similar to gi5640017 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2909
```
tttttttttt ttttctcaaa ccaaacgtca ctttactttt ttggtaactt ttcattataa    60
taataaactc tatggggggat tttgcagcct ccataatctt ctcccttgta acaaacgtgc   120
agtccgttca caagctgtaa aaacaagccc aaacccaaga catcacaaga ggcaagagca   180
gtggcagtga gaagggaccc tgtaaaggat gtttcaaagg agggtcccag gctatgtggc   240
cactggatgt aggcagtgag ctgagtccag gctttcggtc tgggaagtgg cagaggctga   300
cacaatggcc aaagaggatt tggagaggaa actatgctcg gtttcactcc tgccagccca   360
acagcctatt ccctggtgtg aatcaactgg tgtttgatca actttgatcg ctgggctgaa   420
ggctttccca caagcagcac agtcataggg cttcacccca gtgtgaatcc tctggtgctg   480
gatgaggacc gaacgctgac tgaaggcttt cccacactca ctgcatttgt aggggcgctc   540
gcccgtgtgg attatctgat gctgaatgag gtgtgagctc tggctgaagc ccttaccaca   600
ttcaacacag gtgtagggtt tttccccagt atgaactttc tggtggtgaa tgagatttga   660
gcttcggttg aaggctttac cacactggtt acattcatgg ggcttcagcc cattatgaat   720
cctctgatgc tgaatgaggg ttgagctctg gctgaaggtt tttccacatt cagtacattc   780
                                                                    809
atagggcttc tctccagtgt ggactcgct
```


<210> 2910
<211> 1197
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (17)...(500)
<223> similar to gi567232 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2910
```
ggcagcctga gcgaggagac ccccgccggc cccccacct gctcagtgcc cccagcctca    60
gccctaccca cacagcagta cgccaagtcc ctgcctgtgt ctgtgcccgt ctggggcttc   120
aaggagaaga ggacagaggc gcggtcatca gatgaggaga atgggccgcc ctcttcgccc   180
gacctggacc gcatcgcggc gagcatgcgc gcgctggtgc tgcgagaggc cgaggacacc   240
caggtcttcg gggacctgcc acggccgcgg cttaacacca gcgacttcca gaagctgaag   300
cggaaatatt gaagtccagg gagggagcgc cccgggccgc gtccgccccg tcccacacta   360
cgcccccgcc ccactcccgg ggcctgctaa tctgaggccg atccgggacc ggcctccttg   420
cgtctcccat tcccaagatt gtcccgcctc tgccaatccc cgccgtcctt ccagcccacg   480
acctgccgcg ccgaggagcg gcatctgtcc cgtttcccga ttgggtctgt cgtctctctc   540
cgcctagcga cagattcctt ctattaaggg attggctcgc tgagttctaa gctctaaatg   600
ggtcaactcc tttgtttttcc gcctagcgac aagggatttg ctcgcacggc attggctcca   660
```

```
tcccctagtc gctggacagc tctttttttg attggctcaa atcctgtaaa gggcttgacc    720
agtctctaca tagtcaccgt ccgcttttcc tgagttctcc ctcccaattg gctccagctt    780
cctggggggcg tggccaagcc ctcctcttcc cagaattggc ccggggcctt caatttacgt   840
tctttacact acggggactg gggtcgtctt tgcccacgtc ccgacaactt gttccctgac    900
cccctcaggg atggccccaa actgtccctg cctctggcac cccctttcat tggttccatc    960
catccccaca acagcctgcc aatcgaagcc cgtccctgca tccaggatgg taccagctcc    1020
cgccctcgc cccccacctc cacaggtgcc ttaaagggcc ctcgtccacc caaggtgggg      1080
ggcaggggcc ctcactctcc ggccctggtg tgggggagag agtgaggggt tgggggatcg     1140
gcagttggga ggggcgctct gagattaaag agttttacct ctgagataaa aaaaaaa       1197
```

<400> 2911
```
tttttttttt ttttaatcaa tatttgaaaa atgtaacttt tattctgaac atgtagtatt     60
tatctttatt agcaattttt ttcataatat aagcatgcct caatcatcca aaagctatct    120
acctatctat ataaattgat atacatgcta ctgaattgac ttcttaatag actcatatgg    180
taagtgttat aatgactaat caacctactt ctgataattt tggtgtaaac aaaaatgata    240
tttatttttt attaaatcaa gtttacctat caaattccct tttagaaaaa cactgcaagt    300
ttagtcttac caagattgca agtaaatttt aaaattatgg tgctgtaaat aaaaaggttt    360
taagttgaaa tgtgtactga gattagccat atcacaaaag tcctatcatg ggtaatgaaa    420
agtcttattt ttaatatatt tttgtttcct ttttcttttg acatgtggcc caagataaga    480
aggtcttatt ttttaaatgc caaagaacag tattcaacaa aattcgattt aatttttatat   540
ctaacaaaaa catagaaact ggctagtcat attcaagtca attggtcaca ttgtatggaa    600
tacaaaaata aatgagaaaa aaaaccagtt ctacaaaaat gctttgttat tataatactg    660
aaccacatta aataaaaatt catttttgaa aaaactgctt gctataagaa aatgaaagtt    720
agcaggataa atcataagca aaacatttag aacaaatgta tgaacacatt gtggttatca    780
ccattacaaa tgtatacaac accttacaaa aatcttaaat aaaaatgtaa aaatatttac    840
tggcagtgaa tatggcccag gctaattata ccaacgggta ggtgatactg ggaaactaca    900
agatcaatta caataatcac cttttaagat gatactaaaa caaatgttac atcctcctta    960
gaattaacca gggttaataa tacatgacaa gggttataaa gcaactccat gttaagtagg    1020
aattcggtct ctcaaatatt caagtatagc agctgttcct ttcattaata tggctgctcg    1080
aggaactcgg aatggatttc catccagtag taatgttctt aagtttacac aattaccgag    1140
ctctggtgga atttgtaaga ggtcattatt ttgaaggtcc aacgtggtca gatttttccat   1200
catcttcatt ttctgagggt ccacagatcc aacctgatta ttactaatca gaattgtttc    1260
aagtgtgaag atacgatata gaacttcagg tagcatttta aacctattaa aggaaagatt    1320
gatcgtttgc agtcttacca gtgattccat ttcttctggc aaagaattta aaaaattgtt    1380
cctgagatct aaaaaagtca atttctgaag cacacataac tccaaggata taaaggaaag    1440
tttattaaaa ctgagatcga catcagaaac catttccttc agttctacca tccttttttgg   1500
aatttcacat agttgattct tactgaagtt aatagaagtg acgatgttgc tttttactgc    1560
atcaaacacc tcatcaggaa tcaaagttgc ttgtttatca ctatagtcta atatttttaa    1620
tgtaatgatg gcatgtatat tgactctgga ttcactggta gtgtcatggc agtctcagta    1680
```

1723

```
gcagactcac ttggctaggt ccatcatctt tgatcttgct tcgtagatat tttaggactt    1740
cttgtgttcc tttacttata atttctcttc gaattgttct caaaggattt ccttctaatg    1800
ccaaaaattt caaatgaagg ttccccaatg aatagggaag actactaata tcattgttgc    1860
ttaggtcaag cctttccaag gaccgtagta gtataatttc atctggaaca gattttaact    1920
tgttatccct caggtctagc acaagaattg aattcagatg tttaagatgt tctgcctcta    1980
acatttcaat ctggtttttca cctacgtgca attccttcaa tagactacaa gaaggaaatt    2040
ctggtagaaa acgtaattta ttcctccgca aataaagcaa ttctagtgat tccatgccag    2100
ccaattcagg aggtatagtt tccaagagat ttgaattaca atccaaatgc ttcaaccttt    2160
tcattctatt tatttctgct ggcaaactct tcagttcatt actagaaaga ttgagtcgca    2220
ccagactg                                                             2228
```

<210> 2912
<211> 720
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (18)...(467)
<223> similar to gi3880922 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2912
```
ctgcagaaga tttgccttat tatggtggct ccgtggaaat tgctgactac tgcccttttca     60
gtcaggaatt cagttggcat ttaagtggtg aatatcagcg cagctcagat tgtagaatat    120
tggaaaatca accagaaatt tttaagaact atggcgctga aaagtatgga cctcattccg    180
tttgtctaat tcagaaatca gcattcgtta tggagaagtg tgagaggaag ctgagttacc    240
cagactgggg aagcggatgc tatcaggttt cttgttctcc tcaaggtctg aaagtttggg    300
tccaagatac ttcatatttg tgtagtcggg ctgggcaggt cctccctgtc agtatccaga    360
tgaatggctg gattcacgat ggaaacctgc tctgcccatc atgttgggac ttctgtgagc    420
tctgtcctcc agaaacagat cctccagcca ctaacctgac ccgagctctg ccacttgatc    480
tttgttcctg ttcctcgagc ctggtggtca ccctctggct tctgctaggc aatctgtttc    540
ctctgctggc tggatttctt ctgtgtatat ggcactagga atggaaaagt ggatcttcaa    600
gatattcttt tatggtatgt tcttgggaac aaagcacaaa gtttgagtga gtgccaacct    660
atgcagatgg tagaagtggc attcctggct ttggcttgga agattgacga ccatcagacg    720
```

<210> 2913
<211> 1771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1772)...(1416)
<223> similar to gi3875473 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

1724
```

<400> 2913
```
acttatctgg atacacatac attcattaca gaatttaaaa agaattggta cctgtttgta   60
ctaatataga ctaagttgca ttagtaggaa acaaagcaaa ctggaaggta cttatttaaa   120
aatcattatg aaagcatttg tccatctatg taacatgcat gggtgggaag ctagattaat   180
attcaataac cgggggaaaa gggtaagggg gtgagttagt gtctggtaat ttttttttac   240
caaaaaatga atttatgatg agaaattttg aagaattata ctgtagcagc aatagctgat   300
ttgtaagtat cgtcttttat atgtagtagt tcttcactag agctcatgaa aaaagtattc   360
catttaagat gttacaaatt acttgatgtt ttaatatgtt ctttgttgaa tagcttattt   420
tacatttcag tcaaaatagt tatttcacag gtgaaaccac taagtagctt acttcctacc   480
ttttaaatta ataaagttac agtcagccac attgcttgag tcttgccaaa atctttagag   540
aaacaacaca aactcagaca tctaagtcag atcaaattag agcccaatat ttttgatact   600
tttattgtat atgactagtt ttctagaaaa ctattccaga agatacagtc ttccttccag   660
aaaatacagc tttactgtcc ttaagtgcct aatcattttc aagaggagga gcaaacagtt   720
tgccctcaag tatctggtct atcaacaggg gtctggctaa ggaaaaaacg gccttagaga   780
gtgatgaacc tacttaacac tacctggtac ctcaactcat gctaaacatt ctaatttgag   840
caaagctaaa tcatgggtct tagtctgttt agcaaaatct ccacaagatg aaatttagct   900
tactacccca aactgttcaa tgttttgggt ccaatttaga cacaaaaaaa tgttttataa   960
tcctagacat tagattaatg aactttttaa aaacaaagtc atgtttgggc ttagaagttt   1020
gcataatgtt acacagaatg attatgatat cttccgaaac agcttggggt tggggggaag   1080
ttacacatag gtgcatttgc ataactatcc aaactatttt actgttttca caagtacaac   1140
ataaataaca aaggtgctaa tttcaaagac aggtttcaaa caatgagaat aagaatatat   1200
tatttcatat caggcaataa taaccttagc ccaaatactt ttaacatcta aagtgcatta   1260
attgacttcc ttaggaattt tcctaaggac caaaggtaga tacaaatggc ctattttaaa   1320
tagtaatatt actccatgtt cacagacact taaaggcaat cactattcaa catacaattg   1380
tggaaattac tgatttttag ttctcagaat tagagttccc tttgttttc ctcccaggca   1440
aaggaaagct tgatttgctc tggggttgag aaagtttact ggctaataaa gtgaatggtt   1500
caatcagagt tttccgatct gtaacagtca cctcccacag tcttactttc tcacttttg   1560
cccactgctg tgccacttca gcgtccactt gtctctgctc agaaaggtcg attttgtttc   1620
ctaataccac aattgctacc tctttttgt ctttgaactt atcgatttct ttcttcagaa   1680
gctccactct ttgaaaggat tcaaggttat tcacactgta cacaagaacg aagccatcag   1740
caaatgaaaa ataatgcttt ggcagctcca a   1771
```

<210> 2914
<211> 1309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (734)...(181)
<223> similar to gi1644232 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 2914
```
ttttttttttt ttaatagcca agtattccat ttattaacaa aataagtctt accaagggag   60
agctctgttc gtcccaaaca ggccccgcag cccccgcgct gccgcatcag accagaagga   120
```

```
gggaggagtg gggagaagac cccagtcgct ggggggtcca ctctgggggc tctgccgggc    180
caggcctagg agagggcggg ggctgctgtg atccgagagc tccctgacgc cccaaccttc    240
cccgaacgca gctaacgagc tcgtgacatc cgctgacatc gccaccggtc tgctttggag    300
ggatctagcg agagtcacct accccacccc tactgccagg ggaggggtcg ttgcccccc    360
gagggagaga aaaacaagga ctataatgca cttcgcaaaa tgtaaggggc cggcttcacg    420
ccagcggggc cttctgggac tttgaattca accaggtgag cgctccaggt gccccgacag    480
gcgcactgta gccactgggt gttaggggcg ggagtctgga aggtgacggt agacggccac    540
ttgggccctt ctgggggcga gcctactggt ggggtcaggg ctctccgtgc tcagagcaag    600
gtagaggagc aaggccctac ttttgggggg cagggtccag accaaggacc ctatgcgcgg    660
agggtggcgg gggaggagtc ccggagcagt gtaccaggtc aatagagctc cagggcccct    720
gccacccagg tggcccctc cacccccaaa atgagttaca aaaaaaacct cctctctgtt    780
acttgtacaa caaaggaaaa aacaaaacaa aacaaaacaa aaaacaaaaa cagaacgcaa    840
atggaaggaa acaagaggga atgaaggggg aagagggaaa aagagaaggc ggaaacgtag    900
ttttaagtta agactcatgc aagaaactcc ccaggaaggg aaaacaaaac gtctagaaga    960
acccaaagac cccaactctc cctcaaacca aaccaatcaa aaccaaaaaa agaggaaaag   1020
gaataaaaaa tgtaaaactt atatctaaga aaaataaca gaaaggaaca ggggcggggaa   1080
tcatgtcgtt atttgtggga ttaatattat tatttgggag aacacagact ttttgcatac   1140
cattgactca tgtgggccgt taatgcactt atattcccag cttgtaagct aacattatag   1200
taaataaata cacagtccgg tggggaaggg ctgggtgggg aatcccggca gggtcaagca   1260
gtagtggagg ttgcagcggc gacggcaggt ggggagggag gaggaggga              1309
```

```
<400> 2915
ttttttttt ttgttgagca gttgtttatt ctggccctca cagccttggc tagtccacaa     60
aggccctggg gatgggcaac aggctacagg aacccacctg tcttcctggt cagggcccct    120
ggcccctagc agcaggccaa tcctggtggg gcacagggtt ctgtgccctt tggctgccta    180
cctctgaata tcctggccag caagccatgc cttccccgcc cctggggccc tgggagccct    240
tcagctcctg tccccataat gggtcctggg cctaggatga ggggaaggtc ccagtttctt    300
gtagggtgtt atctgggggt cctggtgtgg gttgagctgg agggctgtgg ggccccaaga    360
cccctgtgcc attggggtgc tccaccctct caaacaggat gagcatctca cagtgcgggg    420
tctgcgggaa caggtccact gcccacagcc ttgaccggcc ggaagggaat gcccttcacc    480
cggttagatg gggctctgca gaggtccaca aagttgccca tggctgcccg ggggttgcat    540
gagacgtaca gcagccgcct gaggttctta gctctccgga tggccaggat caccttggaa    600
tgcaagccag cacggggtgg gtccaggatg gccacgaggt gctgggaggc cagtctgctc    660
accagggtgg gcaccaggtc ctcggccctc ccgcagtgga actccacatt actcaactca    720
ttgtcctggg cgttcacccg ggcgtcctcc acagcctctg gcatagctc gaccccaatg    780
accctctta ccttccgggc cagggccagg ccaatggtgc cggtgccaca gcacacgtcc    840
agcaccatgc tccccgcatc caattgggcc cagtcctgga tgactgtgta gagcacctcg    900
gctgcgggtg tgttcacctg gaagaaggcg tgtggagaga tccggaaggt cagccctagc    960
aggtcctcgt ggatgcaccg gtccccagcc acatgctcca ggggcaggcc ctcctggcta   1020
```

```
ggagtctttc gctgtccctc ctccacaaag tagaggcagg tcactccact ggccctgcct      1080
ggccctgctg tgaagtgctg cgctagggag gtcttcagct ctgccagctc ctcagggctc      1140
agcttctggg ggtggaagta ggcaatggcc atggcctggt ggcggcggct ggtgcgcaca      1200
gtcagctgct tccagtggcc tgtgtacgtc tctgggtcgt atgccgagta tggagtggac      1260
cggatgaact cctggaaggc cttcaccacc tgcttggtgg cttcggggat gtgcacggtg      1320
tcaaacgggg ctgccacagc acacgtcccg cccttgtact tgccgagccg acagcccacg      1380
gtgttatcct ccccatccac cccgacgcca accagaaact cacacttatt acaaatactc      1440
agtctgctgg ggtgatagcc tgaccccctc cagcgggcag caggccttgt tgtgctagtg      1500
cctctgc                                                                1507
```

<210> 2916
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(359)
<223> similar to gi560476 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2916
```
gaaaacctga aaatcatgtt gaagctaaac ccatatgcaa agaccatgct ctgcaacacc        60
aggctttgcc aggccagcaa ccacaaactc caggtggata aggcagcggc ggcggtggca       120
gcagcagcag cagcaccagc accagcacca gcagcaccag cagcaccagc agcactagag       180
gccaaatcag atgagaaagg gggttgcagt caagaagcct gtggtaggga agaaaggaaa       240
gaaggttgtt gtttttaagc aggagaaacc tctggtggga aaaagggcag cagctaccaa       300
ccaagacatc agtagctgaa aaaaaaacct accacagagg aaacgaagcc tgctgcatga       360
gcttgttggt ttattccata aaggtcaaat aattttggac agcttatttt taataaaaga       420
cctgatcagg                                                             430
```

<210> 2917
<211> 1104
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1107)...(186)
<223> similar to gi2224903 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2917

```
caaaactttt cttttctttt tttggcatgc aggctctttt tactgttctg agcagtgttt        60
tgcaatgtgt gacccctccg cactgttggt gaacatacag aacctcctat atgggcaccc       120
aagcccaggc cagtgtgaaa accttggcgg ggggtggggg gagaatgaga aggggaggcc       180
cctagcctga ctcagaggtg aagactgcta ggccctgctg tccttggggt acgaactgtc       240
aagggccttt acctcccccc gccccgcggg gtgggctttt ggaaggtgga tctcccagga       300
cgtcatgcag ctccgggcca tccaagatat caggaaattg ttgagcaccc gttacccagc       360
cggggaactg ggctttgacc tcaatttcaa gcctttctgg aatctcccca ttcacaatac       420
ggagagaact ctcaaaggga ctttgctgcc cacccagtgg cactgtgaaa ctggccgatt       480
tgggcaccag acgctgagcc actccatccc tagcaaaccc cagcatgaca ctccctggca       540
gtagctcccg aacgtccaca tcgccacctc cgttcctagt cttgccaaag aagatctcta       600
gcttgtccag cagctcctcc tcactcagcc tgaggctggc aggaaatcca gtgaccaaca       660
ccctccggcc actcaactgg ctggacacca tcacctggat ggtggtgacc atgggcagct       720
ccaagggctg gacctgcacc cgcagccggc actcctccat gttgatcgtg tgctcctttt       780
gttgcagcac ctgctcagcc actttggggt catcaaaggt gatcagagca gagcccgcaa       840
gcagagggca gtggatccgc aaattggaaa ctaaagactt aggcacttcc gggtcctgct       900
gggtgtgtcc tcggaatacc aggggatct tgggcactga aaatgggacc ttgtctttgg       960
gggagtcccc gagctccttt ctcagctgct gcaggtccca cagcctcatc ttgagtctgg      1020
cctgctcctc ctgaagggcg tggagggcgg tctggcctgc tcctcctgaa gggcgtggag      1080
ggcggcatcc agtggggctg acat                                              1104
```

```
        <400> 2918
tttttttttt ttgaaaatac tgtttatta acaccacagt gataaacaac tttaagctta        60
tgtttcttta tagatcactg gctcacacat aattcaaaac ccacacagaa gctaagagtc       120
tttacattaa atatattctt cctaaaaatc cttactgtat gcatctgtcc tcaagcagta       180
aaatttgatt atgccccatt ttataattaa tatggtcaca tttacatagg caaaataatg       240
gaagggcaca gctaatacaa ggcaaactta aacccttтct acttctgagc tggggggtgg       300
ggggcacaca cttgggattg gttcttcaag tatgtatttt ttccaaacat tagcttcagt       360
gaagagttct gatgattttc acagctaccc ccctaaaagc tacatgacag aaagacgtca       420
caaggcgcaa agtacataac gctggataca catgctttac ataatttgct acattctaca       480
tctcttcaag taaattaata tttctaaaac gctaggtaaa gtgatttaat acttaaacat       540
atttggggta tttttтacgt gtttgtaaat agacagtact aagaaaacac aaacatgaga       600
ttgtaactaa tgaatacata tgttgacagt attttacagg ttttacaccc tccttcttgg       660
aaccatgttg tttctctaaa ttcaaatact caaaacattt ttcagaactt gaaatggcag       720
ttttcctggc cttattaaca gtagtgtcat gatctccatt gcaatcttcc tcaatgccat       780
caatctcctg tgaagtgtaa agctgatgtc tgcgttacaa aagcaaagtc tcaaagatga       840
cgttttтctt gggttctgcc ttctctgcac tgcgaaatgt catgagtaaa gaaatttaag       900
aattaagcac tgagaacgtg ttcagtcatg gcttgggtgt ccatgtgta gcgtatgctg       960
tgtgatgaat gggtttcaaa gtgacgttct ttacttcgca tctgctaaca cccttтgtaa      1020
acctcaatcc tcagagaaga gaccatgaaa acataatttt gggtttaatt cagttттtctt      1080
```

1728

```
taacacctt  tgatatattt  attatgttca  aaatgaaagt  caaatttgaa  tcgagctggc   1140
caggatctaa  ttgctttaat  ttaatctatt  ttaggaatgt  cagaataaat  tcacattgta   1200
ttttggtcaa  aaacctgagc  cttttaagt   ccatcgatat  tctgggaaaa  acaaaaccag   1260
gctttttct   tcgtgggctt  tctcttcatc  catctctgcc  cccttactt   cttggcgtca   1320
tcaggcatct  cggcgtgggc  atcgtcatgt  ttggcccccg  cggcagcctc  tgccgcagcc   1380
tcctcctcct  cctcgtcttc  ccctcctcc   tcgtcatcct  cgtactcctc  ttcctcctcc   1440
tcctcccct   ccaaggtcca  tgcacacccc  tccatctcgc  cggtgagctc  ttggatcttg   1500
gcgagtaggg  gcttatagat  gtcattatac  ttttttcca   gagcctgaaa  ttccttatca   1560
aatttggctt  ctatcttatc  gcatcgcttc  tgcagctttt  tgagggccag  gactcggcat   1620
ttcaccgaat  taggcaggct  ctcgataaag  tcattttcg   gctttggggc  attctctgca   1680
ggggtctggg  gctcctcagc  catctgacca  gccgcgctgt  cagggtcacc  agccgcgctg   1740
tcacagtctc  caccctgcgc  accgccttcc  gccattacct  cctctgccgc  tgcctccgcc   1800
gctgccgccg  cctggctagg  ctccgcaggc  ccctggtttt  ccgagtcggc  catgttagag   1860
gagaagccgc  agaggtctag  gagggctccc  gcagaggccc  tgcacccgag  ctcggacgcg   1920
tggg                                                                     1924
```

```
<400> 2919
gaatgcacct  gagtcactgc  tgtagctaaa  caagcaagtt  gtaagaaaat  ccataggcta    60
tacagacttt  tggcaatcca  tcaaatttat  cacctgaggc  tgctgttaaa  tgctgtgctg   120
gaaagaacaa  agacaggtag  agcttacagg  acaggacaga  acaacatgga  tgtagatttg   180
ctcatcctcg  cccaacactt  agcaccagtg  cccaaatctt  ttatttaggg  aaccgtctcc   240
tgctgactac  atgtccaggt  ctccatgcca  aatgagccac  aggatcctgc  ctgcagcaca   300
cacactccaa  ctcccatgga  aattaagtct  ctcattctta  acaacaaaga  aaagccaatt   360
aaaaagtaaa  caaacaaaac  tgagaagttg  atcttaattc  ccactaattc  tctttcaggc   420
ccttgggcaa  gtactaattt  ttatagctgc  tttatcctac  tgacattgca  aggcagggat   480
taacaagtct  agtttctttt  attgccagaa  aattctttac  atctaatata  tattccatgg   540
ctacaagttc  caacccgttt  cccccatgat  tccattagag  atgtcttcta  ttttccaaac   600
atcaccaatg  agaggcataa  gacagtgcat  taatagttca  tctggagatt  cccctagtgg   660
tggttaacaa  gatttcatca  cagtaaaaaa  ctgtgataac  aggatccaag  agaagttgcc   720
gaaaagttta  agaaggaact  caagtgatgt  ccaactttgc  aaaccgtgtc  caatgacaaa   780
agaaagaaaa  tccaatttcg  gttcctggaa  cactttacat  tgtaattcat  ttcggcctca   840
tgagactatg  gaaattggta  agcctgctac  tgtgaagaga  atggtatgca  attaaacatg   900
catgttactg  cttttgtt    tggaagacca  tgctgccaat  gtttctattg  gatgtgttca   960
aaaatgactg  gagagatcaa  tacaaagcca  acaatgttta  cttctgtgac  cacagaagac  1020
tactgagtgg  ctgcagagca  agtcttgatt  attttctgtg  aaatgtatgt  ttatcccatt  1080
ttctgatgta  aaattttca   aggtttgtga  tttttctttt  acataaattt  tagtgccaag  1140
ctccatttgg  tgaatgtctt  cagaatgagg  acactggaca  agcttctctt  cacaggtgga  1200
gtttctggtg  tctaagaagg  cttgaccgcc  tgctgaagtt  tctcctgcat  atgctacaag  1260
tatatggctg  ctcacctgtg  tgggttctcc  ggtgtttaat  aaggtgggag  ttctgactga  1320
```

```
attttttttcc acattcatga catgtgaagg gctttttctcc tgtatgagtt ctttggtgtg   1380
tatgtaaatt tgtattttga ctgaagcttt tccccccccca tgaacattta tatggttttta   1440
ttccttggtg tgttgttaag tgcttattaa gatctgaact ccatctaaac ctcttatcac   1500
actgttgaca tttatagggt ttctcttcag tgtgaattct ttggtgctta ataaaggtca   1560
ggagctaact ctgaaggttt tcccacattc ctgacattta aaaggcttct ctcttgcaca   1620
atctttcttg tgacgatcca taagtttgag cagctcttgt ttccaggttg aaagtttctt   1680
tcttttcttc actggaaaat cttggtgcca ttttcccact ctgtgcatat caaaatgatt   1740
ttctttgcct gctgttttct ggggaacttt tactttggcc ttttttgata tgacgcctgc   1800
tgatgcttgt atttctaagt cagaaagaga cacaggctga tgattttcag tgtcgttttt   1860
gagctttaac cctgtaggag attttccggc actatcctta aactccgggg atacttgaac   1920
ccatggctct tccccttgct ctagacagga gatcacttta ggtttg                   1966
```

<210> 2920
<211> 1925
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1926)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1890)...(785)
<223> similar to gi4519623 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2920
```
ttttttgaaa tctggtccca aagtttcaaa agaatactaa tgcaacaaaa agaaataacc    60
tctctgtata aagtgattat agagatgtgt gttgaggtaa acagcttcat aaaaaccgtt   120
gagcagggaa gcacagccac tgctatagaa attttttaggt aagtctggtg ctagcattat   180
tctacaaaac tgtttacacc cattataaat aggggacagt tcttattgct cctggagctt   240
gtagctccaa tctgttccag ctccactgaa aaatgatttt tctcaacaat tggtagcaaa   300
gatttccaaa tttacaaaaa gtcattacca atgcatcact ttttgattaa tttctgattg   360
ccatatagat atggactaca gtatgcatgt ccttgacacc aagtacagaa aaaaagctta   420
gaaaagtcgt tttatcaaag ttcagttcaa tgagaaacat gaaaaagtgc aaaatatgta   480
caattcctgg cagttctcac acgggatttt tttgactaca gaccataaaa gtttacattt   540
gtgtaatgaa atgacgatgg atttcacatc actgttaata tacaagtttt tgcttcaaag   600
tgcttacttt atttataaaa gagaagatca agagggttgc aggaattttt ttttttttaac   660
aacaaatcaa tggtatgtgt cccaatctcc ttcttcctct tcctttagtg caacatggcg   720
cagcagcctc atggataagg tctgatttca aaagacattc ctgaaacctc acctacagca   780
gcactctagg ggtcccatta ggggtggctc tctttttctt ctgcagccga ttctgaacct   840
ttcgagattt tactactttc attctcacct caaaaacttc atgaatggcc ttccggaagc   900
aatgaaaatt atagtcaatt agcccttttc tttcaaagct ttcctctctg acaaagcaaa   960
cgagagccag gaactttgtc acctctttta aataaagcac ggttgtatta ttaagcttta  1020
tgatggctgt ggattccttg tcataggggg ttcctgctcc atcttctttg agaccataaa  1080
tacaagagat gtcaataacc acatctatca tatcacagca gagctcatag gtttgcatat  1140
ccaccggagt actatcagtt gcaatataaa ttttactgac cacatcaaat agaaatgcct  1200
tttcaattcc agaatttgag ataaagatgt tcagcaaatt ctccagagtt gggagttgtg  1260
```

1730

```
gaatcagttt ctgaacaact ttgctaaaag cttcaaatat tgaatgatca tatatgcttg   1320
tcagataaaa gctgaggtga attttttcta atccagcatc tgcaaggtca tcgtttgccc   1380
tctggtgaat atctctttgg gtttcaattt tgtggtcatc tgacagacca tccactttat   1440
gaataaacac ctcgaagttg atgtcagtat tcactttgta ggccctggtc accgtgaggt   1500
ggagcctggc cagggcttcc atgtaatcat cctgtgagtc aatgacaaat atcagtgctc   1560
ctgttccccg gaagatcatc tcatagtcaa atgtagggtc aaaaaagtca atctgtcctg   1620
ggaagtccca aatctgaaaa ttgacaaagg agctgttgga aacatcttcc cggcatatct   1680
tattagtgct ctccaagaac agagtttcgt tgggagacat tttgtgaaag acaactttct   1740
gaatagacga cttgccgctt ctcctcaggc ccatgagcag gattctcggc ttcacttcag   1800
tgctgaaggg gtcactgaag tccagaactc cctcctctgt gccgctgtcc ggatcggcgt   1860
cggaggagtc gggcccgtct·ccgtagtccg ctgaattccn ccgcngtgac tgagtctcat   1920
tccca                                                                1925
```

```
        <400> 2921
atcccggccg catggtctcc cacacccccag cccctcctgc aagcttccct gtgccatacc.   60
ttccagggga cccaggtgcc ccatgctcta gtgtcctccc aaccactggc atcttgactc    120
ctcacccagg acctcaagat tcctggaaag aagccccagc ccccagggga aacctccaga    180
ggaacaaggt caatgcatct ttccctaccc actccctcgc acattcacca atgaccacgt    240
tctaattcct tggaggattc agtcagtcct tcccccttctc agactgtccc cgccctcctc    300
ccacttactc ttctttcctc agaaccctct tctttctctt tccctcttac acacatacac    360
cagtctcctc acttcccagt ttcccacact cactcttctg tctccttgtt cactgtcatt    420
cctgccactc cccaaaacca gagccatgga gtctctcagg ttagactcat gtctttcctt    480
ctgtctcttt agctgccaga gacatttatg cccccagcac caattactgc tccagttatg    540
agcctcaccc ctgagctaca agggattctt ccctcacagc ccctgtctc cagtgtgagt     600
catgctcccc caggagttcc aggagaactc agcctgcagg tgacaaggac aatgtattcc    660
cctccttgg gaaaccttcc agccctcctt gggtgcaggt catggtagat gggcctcatt    720
cctcaaggca tgtgctgagg gagactgggg gcaggtacca ggtgtcctta ctgcagagaa    780
agggaggctg ctcatctccc caactctgct gtaatgggaa cagtgtgact gtgagtcact    840
ggggactagt ccttagggaa gccatgagaa ggacagcttg·cccctctggc ctttctccct    900
gcttctttat cagcagcttc agcacctgcc acctgagaag.atggaaagga aggagctgcc    960
cccagagcat cagtccttga agagcagctt tgaggcgctt ctccaacgct gctccctgtc   1020
tgcaactgac ttaaagacaa aaaggaagct ggaagaggca gcccagcgtc tggagtatct   1080
atatgagaag·ctctgtgagg ggacactctc acctcatgtc gtggctgggc tccatgaggt   1140
tgcccgatgt gtggatgcag gaagctttga gcagggcctt·gcagtgcatg cccaggtggc  ·1200
gggctgtagc agcttcagcg aggtgtccag cttcatgcct atcctgaagg ctgtcctcat   1260
catcgctcat aagctgctgg tctaaaccag gcagcctctc ttgctaggag gccacttctg   1320
ctgttacata actcctccct gcagaagagg ggacttctgc aacagattct gtttctttttt  1380
cccgactctt ttccttgctg ccaggtatgt gatgctgtag gcttggctcc aaaccagctg   1440
agtgcctgct ttttactcct ttatgtctgg ccttctagga tctgtccaag acactctcag   1500
```
```
                            1731
```

```
gcctggaggg agggcataga atcagttctt cactctccct aatactacac tctgtaagga    1560
cctggggcag gatatcttct cccccaggga tcttctattt aagtggcttc tgagagggtg    1620
aacaggattg ttacttttaa gcctacctct gctgtgaccc atcatgtggg tcttttgttt    1680
ctcccttctg tggtttatga gcctgccctt accttttccc tgcctctgac ttggtatttc    1740
caggtccgta tttctctgta gcccagggtc tggggtagag ctgactgctg ttcacccttt    1800
gaacaactca tggacgtgag ggatgggtgc tgagcagaac caagagagga aactttggcg    1860
ctgttaaaat ggaatttctc atctgccggc attattaagg gtgggctagg ttggatggaa    1920
ggtgaaaggg atgaactgcc ttttgctgga agctgtctta ggctgtgaga caggagcagg    1980
ggaaccacag cctatgggga actgcccttg actccaccta tgttggagcc ttagcccaag    2040
gccattcctt ctgtgatgat aaagcccagt tctggaattg gagccatatt aaggaatgat    2100
tctcttccag cgctgctcct caagggttgg gggtccttct ccctcgcagc caccacatgt    2160
ctcagggcta ccttctccga ttggatttgc atttgtggca ctgtctttga tgcagtgatg    2220
                                                                     2265
tacttaatgg tgcaataaag ctgcttcgat ttggtaaaaa aaaaa
```


```
<210> 2922
<211> 5433
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (10)...(2065)
<223> similar to gi5902966 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



<400> 2922
cggacgcgtg ggatcattga atttgacgca aagtatactg ccttcgaagt ggaggaagat     60
gttgggctga tcatgatccc agtggtgagg ctacatggaa cttatggcta tgtgacagct    120
gatttcatct ctcagagctc ctctgccagt cccggaggtg ttgattacat tttgcatggc    180
agtacagtca cctttcagca tgggcaaaac ttaagtttta taaatatctc catcattgat    240
gacaatgaaa gtgaatttga ggagcccatt gaaattctac tcactggagc tactggagga    300
gcggtccttg ggcgccacct agtgagcaga atcataatag ctaagagtga ctctcccttt    360
ggagttataa ggtttctcaa tcaaagcaaa atttctattg ctaatcccaa ttccacaatg    420
attttatcac tggtgctgga gcggactgga ggactcttgg gagagattca ggtgaactgg    480
gagacagtag gacccaactc tcaagaagcc ttactgccac agaatagaga cattgcagac    540
ccagtgagcg ggttgttcta ttttggagaa ggagaaggag gagtgagaac cataattctg    600
acaatctatc ctcatgaaga aattgaagtt gaagagacat tcattattaa acttcatctt    660
gtgaaaggag aagctaaatt agactccaga gctaaagatg ttacattaac catacaagag    720
tttggtgacc caaatggagt tgttcagttt gctcctgaaa ctttgtctaa gaagacttat    780
tcagagcctc tggctctgga agggcccctg ctcattacct tctttgtcag aagagtcaag    840
ggcacctttg gagagattat ggtttactgg gaattaagta gtgagtttga cattactgaa    900
gactttcttt ccaccagtgg attttttcacc attgctgatg gagagagtga agctagcttt    960
gatgttcatt tgctaccaga tgaggtacct gagatagagg aagattatgt gatccagctt   1020
gtttctgtag agggaggagc cgaactggat ctggagaaga gtatcacatg gttctctgtt   1080
tatgcaaatg atgacccaca tggagtattt gccctgtatt cggatcgcca gtcaatactt   1140
attgggcaga accttattag atccatccaa attaacataa cccggcttgc tggaacattt   1200
ggagatgtgg ctgttgggct tcgaatatca tcggatcata agaacagcc gattgttacc    1260
gaaaatgcag agaggcagct ggtggtcaaa gatggtgcca catataaagt ggacgtggtg   1320
ccaataaaga atcaggtctt cctatcactg ggctctaatt tcactttgca actggtgact   1380
gtgatgcttg tcggtggacg tttctatgga atgccaacaa ttcttcagga agcaaaatct   1440
```

```
gctgtccttc cagtctctga gaaagctgcc aattctcagg tcggatttga atccactgct    1500
tttcaactca tgaacatcac tgctggcaca agccacgtta tgatttctag gagaggcaca    1560
tatggagctc tctcggttgc ctggaccact ggatatgctc ctgggttaga aattcctgaa    1620
ttcattgttg ttggcaacat gaccccaaca ctggggagcc tttcatttc ccacggtgaa    1680
caaaggaaag gagttttcct gtggacgttt cctagccctg gttggccaga ggcctttgtt    1740
cttcacctat caggagtgca gagcagtgct cctggcggag ctcaactccg atcaggtttc    1800
attgttgctg aaattgaacc aatgggcgtc ttccaatttt ccactagctc aagaaatatc    1860
atagtgtcag aagatacaca gatgatcaga ttacatgtac aaagactatt tgggttccac    1920
agcgatctta ttaaagtttc ttatcagacc actgcaggaa gcgccaagcc actggaagat    1980
tttgagcctg ttcagaatgg ggaactgttt tttcaaaaat tccaaactga ggttgatttt    2040
gaaataacca ttattaatga tcagctttct gagatagaag aatttttta cattaacctt    2100
acttcagtag aaattagggg attacaaaag tttgatgtta attggagccc acgcctgaat    2160
ctagatttca gtgttgcagt gattacaata ttggataatg atgacctggc aggaatggat    2220
atttccttcc ccgagacaac tgtggctgta gcagttgaca caactctcat tcctgtagaa    2280
actgaatcca ccacatacct cagcacaagc aagacgacta ccattctgca gccaaccaac    2340
gtggttgcca ttgttactga ggcaactggt gtatctgcca tccctgagaa acttgtcacc    2400
cttcatggca cacctgctgt gtctgaaaag cctgatgtgg ccactgtaac tgccaatgtt    2460
tccattcatg gaacattcag ccttgggcca tccattgttt atattgaaga ggagatgaag    2520
aatggcacat tcaacactgc agaagttctt atccgaagaa ctggtgggtt tactggcaat    2580
gtcagcataa cagttaaaac tttcggtgaa agatgtgctc agatggaacc aaatgcattg    2640
ccctttcgtg gtatctatgg gatttccaac ctaacatggg cagttgaaga agaagacttt    2700
gaagaacaaa ctcttaccct tatattccta gatggagaaa gagaacgtaa agtatcagtt    2760
caaattttgg atgatgatga gcctgagggg caggaattct tctacgtgtt tctcacaaac    2820
cctcaagggg gagcacagat tgtggagggg aaggatgata ctggatttgc agcttttgcc    2880
atggttatta ttacagggag tgaccttcac aatggcatca taggattcag tgaggagtcc    2940
cagagtggac tagaactcag ggaaggagct gttatgagaa gattgcacct tattgtcaca    3000
agacagccaa acagggcctt tgaagatgtc aaggtctttt ggcgagtcac acttaacaaa    3060
acagtcgtcg tgctccagaa ggatggggta aacctgatgg aggaacttca gtctgtgtca    3120
gggaccacaa cctgtacaat gggtcaaaca aaatgcttta tcagcattga actcaaacca    3180
gaaaaggtac cacaggttga agtgtatttt tttgtggaac tatatgaagc tactgctgga    3240
gcagcaataa acaacagtgc cagattcgca cagattaaaa tcttagaaag tgatgaatct    3300
caaagccttg tgtattttc tgtgggttct cggctggcag tggctcacaa gaaggccact    3360
ttaatcagtc tgcaggtggc cagagattct gggacaggac taatgatgtc tgttaacttt    3420
agtacccagg agttgaggag tgctgaaaca attggtcgta ccatcatatc tccagctatt    3480
tctggaaagg attttgtgat aactgaaggc acattggtct ttgaacctgg ccagagaagc    3540
actgtattgg atgtcatcct aacgccagag acaggatctt taaattcatt tcctaaacgc    3600
ttccagattg tccttttga cccaaaaggt ggtgccagaa ttgataaagt gtatgggact    3660
gccaacatca ctcttgtctc agatgcagat tcgcaggcca tttggggggct tgcagatcag    3720
ctacatcagc ctgtgaatga tgatattctc aacagagtgc tccataccat cagcatgaaa    3780
gtggccacag aaaacacaga tgaacaactc agtgccatga tgcatctaat agaaaagata    3840
actactgaag gaaaaattca agctttcagt gttgccagcc gaactctttt ctatgagatt    3900
ctttgttctc ttattaaccc aaagcgcaag gacactaggg gattcagtca ctttgctgaa    3960
ttgactgaga attttgcctt ttctctgctg actaatgtta cttgcggctc tcctggtgaa    4020
aaaagcaaaa ccatccttga tagttgccca tatttgtcaa tattggctct tcactggtat    4080
cctcagcaaa tcaatggaca caagtttgaa ggaaaggaag agattacat tcgaattcca    4140
gagaggctac tggatgtcca ggatgcagaa ataatggctg ggaaaagtac atgtaaatta    4200
gtccagttta cagagtatag cagccaacag tggtttataa gtggaaacaa tcttcctacc    4260
ctaaaaaata aggtattatc tttgagtgtg aaaggtcaga gttcacaact cctgactaat    4320
gacaatgagg ttctctacag gatttatgct gctgagccta gaattattcc tcagacatct    4380
ctgtgtctcc tttggaatca ggctgctgca agctggttgt ctgacagtca gttttgcaaa    4440
gtgattgagg aaaactgcaga ctatgtggaa tgtgcctgtt tacacatgtc tgtgtatgct    4500
gtctatgctc ggactgacaa cttgtcttca tacaatgaag ccttcttcac ttctggattt    4560
atatgtatct caggtctttg cttggctgtt ctttcccata tcttctgtgc caggtactcc    4620
atgtttgcag ctaaacttct gactcacatg atggcagcca gcttaggtac acagattctg    4680
tttctggcgt ctgcatacgc aagtccccaa ctcgctgagg agagctgttc agctatggct    4740
gctgtcacac attacctgta tctttgccag tttagctgga tgctcattca gtctgtgaat    4800
ttctggtacg tgctggtgat gaatgatgag cacacagaga ggcgatatct gctgtttttc    4860
```

```
cttctgagtt ggggactacc agcttttgtg gtgattctcc tcatagttat tttgaaagga    4920
atctatcatc agagcatgtc acagatctat ggactcattc atggtgacct gtgttttatt    4980
ccaaacgtct atgctgcttt gttcactgca gctcttgttc ctttgacgtg cctcgtggtg    5040
gtgttcgtgg tgttcatcca tgcctaccag gtgaagccac agtggaaagc atatgatgat    5100
gtcttcagag gaaggacaaa tgctgcagaa attccactga ttttatatct ctttgctctg    5160
atttccgtga catggctttg gggaggacta cacatggcct acagacactt ctggatgttg    5220
gttctctttg tcattttcaa cagtctgcag cttctagtac cctctgttct actttttact    5280
tctatgagat caacattttt tagcttccac acagggactc tgacttcaag agagaagaaa    5340
agtacttttg tacttacatg cctactgagc ccagattcca aaggccttgg ggttctatgt    5400
ttccttaaca ctgaatgggc tttccaagtg cat                                 5433
```

<210> 2923
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (724)...(203)
<223> similar to gi4914617 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

    <400> 2923
```
tttttttttt ttcccttcc cctccaaagt ccagggccac cagaactgac tttattaaaa      60
aaatgacaaa acaggtctat acatatttac aggctgggag ccaggaggct caggtccgac     120
agcaggggcc aggctgctca cttcttggag agcttgactt gcttgtgctt ggggggtgcc     180
cacttgaggc agacggagtc cactgtgatg ggtggtttct tatactgggc acttttgagg     240
tgctcctcca ccagcttggg tgtgacacag atcacgtgct ggcccttcca gtacttgacc     300
atattgaggg attgcagggt actgatgatg tcattttggg tgatactggt catctggctg     360
aggtccttga tggacagtgt gccccggaa gttcccgcag gatctccagc agctacacca     420
ggaccagtag ctgcggtagc tgaaggcttg cccagggtca gacagcggct tctccgggga     480
gccgactgtg ctctccagct tggagagctc ataactgaaa cccgatgagg aacttcccgt     540
agccgcggcg ttggtagggg ggcaaggtca ggatgcaggc cacattgttt ccatccgggg     600
actcctttct ccttggagaa gtagccaaca atgtgggccc cctgccggtc cacctcagtc     660
aggatgtaaa aacgaacggg ttcccttaaa agtacatgtc ttatggtcca agaaaagctt     720
ggc                                                                  723
```

<210> 2924
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (235)...(527)
<223> similar to gi5081610 in the genepept database release 114,

1734

<400> 2924

```
caagaagcac catcacaagc gttcccactc accctcagtg agtaagcgtg tagaagggac     60
atggggtgaa gctgggttgt tttggggaaa taaacacttt gttttcccct tacaatatct    120
cccttggagg gaagtttgag gattcctttg gccctgggtc ctcctcccct ctcgaattcc    180
cagacgaggg cttctggagg gcagagaacc tctgcactga catgtatctg ctgatctgcc    240
cagggctctg agtcagaaga agaggagctg cccccaccat ctctccggcc ccccaagcgg    300
aggaggcgga acccctcaga gtcaggctct gagccctctt cctcacttga ttcagttgaa    360
agtggggggtg ctgcccttgg aggacggggc tccccttcct cccatcttct tggagcaggt   420
aagcagttgc tgtgagcgta gaagctggag aactgttgtc ccagactgag aggatgccct    480
ccacaagccc cagctccttt gagggtagac tggattggga gggctgcacc tgtggaagta    540
gaaagaactt cctctacctg cccaagcaag aagctggaga aggaaaactg gacttatact     600
tcctcagagc atgaggttcc tgcctgtgaa gaatgaacag aggggctaga acaaagaaaa     660
agagcctgtc tttctcctgt tgggacttag tagggatttt tctatctcta gatcatggcc     720
ttcggaaagc caagaaacca aaaaagaaaa ctaagaagag aaga                      764
```

<210> 2925
<211> 1181
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (108)...(482)
<223> similar to gi537433 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2925

```
tttttttttt ttgagatttc ccaggactgg cttttaatttg aaaaatctga ttggggtctc    60
ttcccgtatc agagaaggaa cagcccaagc tatgacccca gggccaggga attcagtccc     120
caccagaccc tgtcattcca tcactagggg gtaattccag gctcccccctg ccagccctga    180
gacaggagga cggatgtgaa gttgcccagg actagattct gtctctccaa agtggcccaa    240
gccctgttct ctgtactagg gaagccagct gtgtcttttc gaggacagtt ggtccagcca    300
gcaggctcag ttcagatacc agacaaccat tccagcacga gggctcagcg ccctggcccc    360
ggcggtcgct ccagtgcctg tgtgcccacc agcacatcca tgaggtagtc caattcggcc    420
tcgtccagct ccggagcttc ctccttgccc ggcccatcct cagggcctgg tttgaggccc    480
tcagaggctg gtgcccaaag ttcattgtca tacatagagg tgtcaatatc ctcaaacagg    540
ccctcaagcc catcgtccag tagacagcca gtggctgggc ccagcaggtc caaggcaccc    600
aggctgggcg ctgctccccc gatgctacgg cctggtggcc cctcgtctgc caagggttgg    660
ggagcctgac tcaggccctc aatgtggctg aggtcctcca ggaggctggc catggaggct    720
gaaagggcag cgtccgagct tgccagtaag ttgtcagcca cactggggggc tgcaggtggg    780
ctaggcacag gtggcagggc agccgcgggt gccatggacg cctggatgcg ccgcagagtg    840
ttcacgacca gcaccaggtg ccgcaggtcc ggctcactct gctgcaggct gtggtggagc    900
ttgagcactg agaggtcaaa gagggagcta gaggccacgg ccggggggtgc ctgtgccacc    960
gctgcgtggc caggatctag ccaccaggag tcgactgcca gaggttcctt ctcctcctcc   1020
tcctcccgtt tccgcttcag accccttgctc agcatcttgc tcactagcgg ccaatcagaa   1080
```

```
cgaagaggta gccacccaca accaatcagg aaacggcggc ggcagcatcg cttgttggct    1140
gtcctccgga aacccgcgcc tgggtcgcgc ccacgcgtcc g                        1181
```

```
<210> 2926
<211> 1055
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (900)...(629)
<223> similar to gi3002527 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
     <400> 2926
ctgatgggca gtggggtgtg ggggggaggt agataggtat ttaggatgga attctgctag     60
acaggaaaat atagttcagt tcctcatagt tcaggctgga gcaagtaaga ttccagtttt    120
accactgaat ctctgagcct gtctcctcat ctgtaaaatg ggaacagcaa tcctagccca    180
gagggttgtc aaagtcactg tgctatcggg cctggcagaa tgggagtgag aggggctcag    240
agggactgtt acaggacatg aggtgacgat ggtggggtgg caaggcagga gctgatggag    300
actcactgag aagtggagaa gcaagattca tcacatacgg gacataaagg gagatggagg    360
ggcaggggt agtcctggtc tcggcctggt ggggaagggc ttcaatggga ggaagccagg     420
gtgtgaagtg acgggggagg tatagtgtga caccagaggg tactgagaaa gacctgggag    480
gcaggatggc ggctaggact aaatcctctc tcccagagaa ggccgagcct cctagagcca    540
gagaaggagg cagaggaggg acagcaaagg gaagaagaga tgggaggatg ccgtgtgaac    600
aaagccaagg cggggaggag aagaagttat tatcagggtg ggggtgggct gagggcatgg    660
ttcaaggcct gatgtctttg cctcctaatg ccggggggtct tgctggctgg gtcaggccac    720
tcacaggaat gggccataat ccttggttga caataaatgg acaaagcagc tgggtgcggt    780
ggctcatgcc tgtaatccca cactttgggg aggccaaggt gggtggatca cgaggtcagg    840
agttcgagac cagcctagcc aacatagtga aaccccgtct caactaaaaa cacaaaaaat    900
tagctgagcg tggtgcgggc acctgtaatc tcagctactc gggaggctga ggcagaagaa    960
tcgcttgaac tcaggaggca gaggttgcag tgatgagaga atgtgccact gcactccagc   1020
ctgggcaaca gagtgagact ctgtcaaaaa aaaaa                              1055
```

```
<210> 2927
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (768)...(642)
<223> similar to gi3878300 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
<400> 2927
actgccttct tgggtgagtg cattagctgg gtagggtctg tcccggacct aactggatag    60
tgtgggaagc agtggatcgt tgtttcaaaa accatttctt tttggaaatt gtcacagaga   120
aggactagat ttgcggatgc ctaccttagc tgcaggcgta ggcccacacc tgacgcgtaa   180
gctgcctaaa cggcagctaa cgtagatcca cccagacgcc ggaaacgggg gaagctcctg   240
ctttgcatgg gttccgctcc ctcctgtttg ttgtggtgtg gagccaggtg gcatgtgtgg   300
cgatggagtc acggggcggg tgacagaatt tatgccagat tgtaaaattc ctggtttaag   360
tttcccctgg aaaagtttcg taaaggttaa gaaacgtgtc tgttgaggtc ctttaaaagc   420
cggtgctctg ctgggagtaa cgagcaaacg tttgtttttag catctacggc ttaagcttcc   480
atagagaagt cggtatctca aagttgcttg aaacagaaaa ggacaaagag gttggtggaa   540
tagggtaacg gataaggtta ctcttaagag gttttagaga gctttcccca gtttttaggag   600
atgattaatg gtcatgaaag tgtgtaaaat atacatgcta ttggagttgc aacgaaagac   660
ataattactg tgcccctta gtgttttcaa acattttcca gatctcacat cctataattt   720
tagagtttat catctgaggc agaaacaaga cgactggaat ctgatga                  767
```


<210> 2928
<211> 955
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (944)...(591)
<223> similar to gi244774 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


```
<400> 2928
caaagtagta atatcacgga tttggtagac attttcttta tcacaatgct tatttctaca    60
ccttcacagc attttcctat gcttaccact ttaaggagat cagaattact gtctcagttt   120
ggctggggct gctcagtcca aaatttggaa ctgagatgag ttacagattt cagtttagtt   180
agagtttctg aattgcatca gaacagctgg gtctacttcc agagtggtcc ctcctgaggt   240
ttattttgac tcatggttct acaggttgta agggaagcat ggcaccagca tctgcttctg   300
atgagggcct caggaagctt cccatcatgg catatggcaa agagggagca agcaaatcat   360
ggtgagaaag gaagcaagag tgagcgggag gaaatgccag gctctttttga acaaccggat   420
ctcgcatgaa gtcatagagt gagaactcat tcattactgc aaggacaaca ccaagtcatt   480
tgtgaagatt ccatccccgt gacccaaaca cctccgggta ggcccacctc caacactgga   540
ggtcacattt caacatgaga tttggagggg acaaacatct aaaccatatc aagatttttc   600
atttatttgt ctaaattgat tcctatgtat ttcatatttt tggagctatt gtaaatgaga   660
ttgctttctt gatttctttt ttcagattat tccccattga catatataaa tgctactaat   720
ttctgtatgt tgagtttgta tcccagcaac ttaactgaat tagtttaccc agttcctagc   780
agttttttgg tggagtcttt aggttttttct aagtgtaagt tcatgtcatc tgtgaacaag   840
gctatgattt ctttctttcc aatttttagta ctctttattt ttttcccttg cctaattgct   900
cttccaggac ttccaatatt atgttaaata aaagtggtga aaagtgaaaa aaaaa          955
```

<210> 2929
<211> 951
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (27)...(348)
<223> similar to gi180879 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2929
```
acgaaccgga gggctagaga cagcggccga gaggacgagc cgttcagccc cagggccctg      60
agggcccgac ttgagaagct ggaagccatg taccgccggg ccctgctgca gctgcacctc     120
gagcagcggg gaccacgtcc gagcggggac aaggaggagc agcctctaca ggaacccgac     180
tccggcctcc gctcccggga ctcggagccc tctgggccct ggcctgtagc cgaggccgca     240
gccgatgaga ggcggagcct cgagcgggcc cctcctcctc cgttcccagc tacccccgac     300
ctcgcgcacg ccctggcccg cgccctgccc gcggatacct tggactacgg tgccttcccg     360
cccccaccag tggacacttc cgggtggcgc ttggccatcc gcttggtgga ggtcgagtgg     420
gtgcaagggc cctcaggacc tcccacatgt acagttcccc tgcctcttgc cccggctagt     480
ttccctggag agaggcctag ccaacaacga agggacggat tttaaaacag cgagaactgg     540
gtgccaagaa acacttcata ttccctgaac ttttctggat gttgtgcgaa cctgttgtat     600
ttttttttttc ctgtattttg gttctgaggg atgagtaatg tgtttttagt tcgttgagtt     660
tatccattct tcaatcccct aaagccttca gctgttcttt catatgtggc caacatttta     720
agtacagtgt ttgcttttat aagtcggtgt tacttggatg tcctataaaa tacccacttt     780
ttataaagat gatatttata acctaggaac tcatgcctgt cttggctgca gtccctgtac     840
atctaatata tactgatttg tttgccccca gagaattttt aaggtatctg cctatatcgt     900
gatcttttga aatggtaaat aaatctggtg cattaaaaat taaaaaaaaa a              951
```

<210> 2930
<211> 1842
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1842)...(485)
<223> similar to gi3941320 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2930
```
aagtacaaaa taatatttta ataacatagg aacatgaaca tgaaaacaat gtaaacaggt      60
tagaattttt ggatatgata cctaccaaac gtgatttgga accgtaccgc aactgggtaa     120
aatttctatg gcaaaaggat taaccaaggc atatcatagg aaatccactt tgcccaatat     180
aagcagttct cagcacatac tcaaatgcac acaaacatga aaatcggaaa taaaggaatg     240
ttaaaaaaat aacttaggca gacacaaata aaaccacccc actagtgtat gaatgatgcc     300
acgtttctta tgatcttaat tacatttaag gatttaaaaa atgccactga tctcacagtt     360
```

```
tacaatatcc aaatcttcaa acctgctgga agaagtccca cagcacagcc tggaaattcg    420
catccgttgc attctctcgt gcagttacct gcttatgggc tgtaccttct gccttgatat    480
gtagtcagtt cttcctgaag gatggaagct ctcttttgca gaaaattaac ctgtgatttt    540
agggaggaaa tggtgtcttc aagttcttgt cttagggatg ctggcatcaa tcctttcaat    600
tttgtttcat attcttgtcg tatgtaagtt atctgttcct gtgactccaa ttctttgtgt    660
tgtaattttt tctctgcaca tcgcacctga ttagaacggt tttctaattc atcttgtaaa    720
accttgattg cttggtcatt atctctaatc agctgcttct tctcatcttc aaacttttgt    780
ctaacatcct ggagccgcct ttctgcagca agctgctgct ggctgttctc ttctttcaga    840
gaggaaatgg ttgtctgaag ttctgctatg atctgtgaag atttggcaag cttctgagtg    900
tattccttct caatctgctt cagcttgctg ttggcctttt ccagtgtcat ctctgtctca    960
gcagcatgag tcttttcag ctctattttc atcttttctg attcagcctt cagtttattg   1020
acgacaatct catgttccct tgtagcccct tgctttttcct cttcacgaag aagaccaagc   1080
tctaccagct gctgtttccg ctgtgagttc acattgatca attcttctct caacttgtga   1140
acctgggcct ccatgtcggc aataacctgt gcatctcgtt tcttgaactc ctgaatttga   1200
ttttcgtgct ccatattggc agcgcgaagc tgttttttcca ggttttcaat ttcccgttca   1260
tggtctcgga ctaggctatc cttctctgcg ttatgctgct gtaataggtg cgtcttctcc   1320
tgttcatgct ccagcttcag ctctactatc tgttgttcat accgctgtct gatgtcctcc   1380
agttgccata aaaactcctt tgattgtttc tcacgaagag atttggatct agttagatct   1440
gcctccactt tttccatttc aaagcttcct caaatttatg aattttcttt tgagtatctt   1500
cttttccttt atcaagttca ctctgcaagt catgagcctt ttttcatag atgtgtttta   1560
gatgactttt ctccatctga aacttatttt cttgatccct tagttgttgc tttctttgaa   1620
gttctgattc ctgtaactgc tgtttttaatt gacagacatt ctgctctaat tcttcaatca   1680
tactagatgc cttagaagct gaaagagcat gttcttgttt tagaaggttt atatcagcat   1740
catatttggt ttgtaacagt ttcatgtttt gctcataatc atttacaaga tggtccttct   1800
ctttatgcag tgtgttacgc cttgccttta cttcttgtaa tt                      1842
```

<210> 2931
<211> 856
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(857)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3)...(263)
<223> similar to gi1163054 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2931
```
cccaggagcc ctcgcagcag ccaatccgct tctcactccg cagctatcag acagagaccc     60
tgcccatgat cctgacctcc accagcccca gggcaccctc ccggcagtcc agcacagcca    120
cgagctccag ctccacaggc ggctccatcc gcaggttctc ctttgccagg gctgagccgg    180
gctgcctggt gccctcaccg cccccgccat acaccaccag ccactcaatc cacctggctc    240
agccatctgg tttcctggtg tcacccccagt atttcgctta ccccctccag caggagcccc    300
cactgcctgg gaagagctgt ccagacttca gttccagttg acacgcccag gccatgaatc    360
cacaactcag tcagatggca gacaggtgga gccctgctcc cattgccaca tgcaattctg    420
```

```
agaaaatttc ccttgtaact gatcagtgtc atggaggagc atgctaggaa aacacagcac    480
cttctaattt gaaagttcct gtctccaatc acagaaaggc taaaccagag aactgttttc    540
tggttttgca aacatgtgat cattacattt caatctatgc tacttttatt caaaatatgc    600
agcagtttga ctttaaagtt gcaaactggc taaaaacgtt ttactggaca ttcagctata    660
ttgcttagaa aagggctaca tgtttctttt tcatataagt tgttcattga gttatgatag    720
gaatatattc ataaataagc aaagaaaaat acctaattgt aattatcaaa ggttcactta    780
aaaaattaac tattaggtaa acttaagggg gcagtgaaan aatctattta tgatttcggg    840
                                                                     856
agtaacccna accatg
```

```
     <400> 2932
tttcgtctga ggctgaggct ggggaacatc gggcagcatg agcggctgcg ggctcttcct     60
gcgcaccacg gctgcggctc gtgcctgccg gggtctggtg gtctctaccg cgaaccggcg    120
gctactgcgc accagcccgc ctgtacgagc tttcgccaaa gagcttttcc taggcaaaat    180
caagaagaaa gaagttttcc catttccaga agttagccaa gatgaactta atgaaatcaa    240
tcagttcttg ggacccgtgg aaaaattctt cactgaagag gtggactccc gaaaaattga    300
ccaggaaggg aaaatcccag atgaaacttt ggagaaattg aagagcctag ggctttttgg    360
gctgcaagtc ccagaagaat atggtggcct gggcttctcc aacaccatgt actcaagact    420
aggggagacc atcagcatgg atgggtccat cactgtgacc ctggcagcgc accaggctat    480
tggcctcaag gggatcatct tggctggcac tgaggagcag aaagccaaat acttgcctaa    540
actggcgtcc ggggaagcac attgcagcct tctgcctcac ggagccagcc aatgggagcg    600
atgcagccta aatccggagc agagccacac taagtgaaga caaaaagcac tacatcctca    660
atggctccaa ggtctggatt actaatggag gactggccaa tatttttact gtgtttgcaa    720
agactgaggt cgttgattct gatggatcag tgaaagacaa aatcacagca ttcatagtag    780
aaagagactt tggtggagtc actaatggga aacccgaaga taaattaggc attcggggct    840
ccaacacttg tgaagtccat tttgaaaaca ccaagatacc tgtggaaaac atccttggag    900
aggtcggaga tgggtttaag gtggccatga acatcctcaa cagcggccgg ttcagcatgg    960
gcagcgtcgt ggctgggctg ctcaagagat tgattgaaat gactgctgag tacgcctgca   1020
caaggaaaca gtttaacaag aggctcagtg aatttggatt gattcaggag aaatttgcac   1080
tgatggctca gaaggcttac gtcatggaga gtatgaccta cctcacagca gggatgctgg   1140
accaacctgg ctttcccgac tgctccatcg aggcagccat ggtgaaggtg ttcagctccg   1200
aggccgcctg gcagtgtgtg agtgaggcgc tgcagatcct cgggggcttg ggctacacaa   1260
gggactatcc gtacgagcgc atactgcgtg acacccgcat cctcctcatc ttcgagggaa   1320
ccaatgagat tctccggatg tacatcgccc tgacgggtct gcagcatgcc ggccgcatcc   1380
tgactaccag gatccatgag cttaaacagg ccaaagtgag cacagtcatg gataccgttg   1440
gccggaggct tcgggactcc ctgggccgaa ctgtggacct ggggctgaca ggcaaccatg   1500
gagttgtgca ccccagtctt gcggacagtg ccaacaagtt tgaggagaac acctactgct   1560
tcggccggac cgtggagaca ctgctgctcc gctttggcaa gaccatcatg gaggagcagc   1620
tggtactgaa gcgggtggcc aacatcctca tcaacctgta tggcatgacg gccgtgctgt   1680
cgcgggccag ccgctccatc cgcattgggc tccgcaacca cgaccacgag gttctcttgg   1740
```

```
ccaacacctt ctgcgtggaa gcttacttgc agaatctctt cagcctctct cagctggaca    1800
agtatgctcc agaaaaccta gatgagcaga ttaagaaagt gtcccagcag atccttgaga    1860
agcgagccta tatctgtgcc caccctctgg acaggacatg ctgaggcagg ggacagtgtc    1920
ccctgctacc gcccgcccct acccatggcc cgttgctgga tgactgttac tctttttttca   1980
gaaggtgttg ggattatcac aggttaagcc ttttgttccc cgtctgcacc tgaagggttg    2040
tcgcctggcc tgggagagcc tcttccaggt tttgacctgc aggcagtgct ctctaacagg    2100
accatcacag cttctgaact gagccggaga gagagaatgg aattgctgac ccctggaact    2160
ggcgggtatt ctggtcattg aggagacacc atagtggaaa ctggggctta tgctgctgcc    2220
tccagggtgt gaggtgggtg gggacctgtg tcaggtgtgg atagccattt ctgctcaacc    2280
acacattctc taagaaacag cttgaaagct ctgtctgggt cattcattta aactagaagc    2340
agaggcactt aaaacatgta ccaggaacca tttaacaaag aatataaaat gtcacaatct    2400
gtgtactgtt aaaaaaaaaa aaaa                                           2424


        <210> 2933
        <211> 1469
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1442)...(958)
        <223> similar to gi3002527 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 2933
cccacgcgtc cggcatctac cttcccgtgg ttaaagagaa actggaacag taaatggcag      60
tatgtataat ggttaagagc aagaccggag gctcagccag ttcatcaaag cctacaagac     120
gggcaacatg gaccaggcgc tgtccctgtg gttcctcctg ggctggattg gcggagactc     180
ctgcaacctc atcggctcct tccttgctga ccagctgccc ctgcagacct acacggctgt     240
gtattatgtc ttggcagacc tggtgatgct gacgctgtac ttttactaca agttcaggac     300
gcgcccctct ctgttgtctg cccccatcaa ctccgtgctg ttgttcctca tggggatggc     360
gtgcgccaca ccgctgctga gtgctgctgg gcccgtggct gccctagg aagccttccg       420
ggggcgggcg ctcctgtccg tggagtcggg cagcaagccc ttcacccggc aggaagtcat     480
tggcttcgtc atcggctcca tctccagcgt gttgtacctg ctttcccggc tgcctcagat     540
ccgcaccaac ttcctccgga gtccacccca ggggatctcc tactctctgt tcgcgctggt     600
gatgctgggg aacacgctgt atgggctgag cgtgctgctc aaaaaccccg aggagggcca     660
gagcgagggc agctacctgc tgcaccacct gccctggctt gtgggcagcc tgggcgtgct     720
gctgctcgac accatcatct ccatccagtt cctggtgtac aggcgcagca ccgccgcctc      780
ggagcttgag cccctcctcc ccagctgacc agaaccaggc tgagcgcagg aggacaggca     840
ccaccggatg ccacaccagg caggaggagg tgtggacagt gatggtacgg cggccctgca     900
tcagcctgcg ggtggcctct ggatcctccg tggaccgaac cgtccccca ggaacacacc      960
ttcaggtaga ccccgaagcc tcaaggccgg ggctggagcg gagacccag ggcctctcag     1020
gagacagtga ggctgcccct cctaccacct acctcattct gcctactcac cccaggggcc    1080
acagccacag cctgctggac tcaggactgt cctgtcaact ccagacaact gaaataaaca    1140
ggccgggtac agtggctcgc acctgtaatc ctagcacttt gggaggccga agcgggtgga    1200
ccacttgacg tccgtagttc gagaccagcc tggccaacat ggtgaaaccc ccatctctac    1260
taaaaataca aaattagcc aggtgtggtg cacacatct gtagtcccag ctacttggga     1320
ggctgaggca ggagaactgt ttgaacctgg gagacagagg ttgcggtgaa ccgagatcgt    1380
gccactgtac tccagcctgg gtgacagagt gagactccgt ctcaaaaaaa ataaaaaaga    1440
taaccgagga aacggtaaaa aaaaaaaaa                                       1469
```

1741

<210> 2934
<211> 1293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1294)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1114)...(1268)
<223> similar to gi500734 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2934
```
tttttttttt ttgacgcggg gagagattta atttacatag cagccacttg gggtccagtc    60
agagctgggg cagtggggga atctataacc ccagagggta cccccagac ccccacccc    120
gggagaccag tcctcaccaa cccttggatg ggctcccaag gttgtgcaga agatgctcca    180
gtcaaaagga tagagacatt tgggaaataa aggctgtccc caaagttggg gggaangtcc    240
acggcctggg agtggatagc ctacatggtg gccccagggg gtctgagaga ccagtcccat    300
gtccctgggc gagtccttca gcctgggtgg ccctagagga aagccttcgc gggcggaaac    360
tgttccctgg aggagggcgc ggtactggtc aaaatccttc ctttccacac gggtgacgcc    420
gccttcctta gcatacccac aacttcccgg cacaccagcc ttgataaagc gcttcattcg    480
tgggacacca gaatcacacc aacccctgaa attgtttgaa ggcaaggccc cagagcctca    540
atggctctcc catgtccaag gtgggtttgt gggttcatcc cagaatgtag aaagttgggg    600
cagggcaata gtccatctga gcaaaaggcc acttcggctt ctttctggcc cccaagacag    660
gctggcaaag aggacgcatg gcccagttct ccggagatgc ccataccgaa cccaagctgg    720
tgacnggtac tcctcctcag gccgccccag gaaaacttgc gtgcccagca agttcccaca    780
agcactgaac gtttaggtcc cagctgctcc cacatggtgc tggctgaaat agccaatctt    840
cagattcctg tgagcgtgtc tgatgccccg aacaggtgcc aggtccccca aaagcagctt    900
cagcatggta gacttcccag ccccattctc tccaaccaca cagatgcgag actcgagatc    960
agcagacaca gagaggcgac tgaagatgac gtgcttcgga tcgtagtaga aatccacctc    1020
atctagctgc agaattggcg gcgagaactt ctcaaaccca tcagggaact tcattacgac    1080
ctctgattcc ttgtccacag gcttcagctc aggcctggga gaagagatga ggtagactag    1140
atttattact taaaaaaata acttcctaca cgagtaatat atgttcagag aaaacttaga    1200
aagggcttgt actcctacca ctcaggtatc attactttag agtccattct tctcatttac    1260
tgtatgctaa aaaatagaat taggcttttt gtg                                 1293
```


<210> 2935
<211> 607
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(608)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (583)...(176)
<223> similar to gi2773297 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2935
ctcaaagaga tcttcagcca tacgcatcat cataatcact gtcaaaagac agatttttct   60
tttttttagaa ttttaaatgt acctttttaat ttgctcctgg ggcaaagagc caggactggt   120
actagagcag tgtctgggat gagaagaatt taataaaatg ggattaggtc caatggttgg   180
gttaggggag gcaacctgct cgggaggatc agcctcaacc tatccatgca gcagggcctc   240
cacctgtccc tctccgtagt cccacacctg gaacccagag ccatctgcct cttcccagat   300
catggccgac agcactccac cagactgcgg ctggagcagg cacaggattc acttattgag   360
ggctgtggcc tggcacaaat catagcctat acccagggac agttgtgtca cttctgccac   420
caccacatcc gccttctgca gccacatcaa gtaccactca tggatgagcc cgtcacccc   480
agcggactta tcaacccgc gtccagctcc acagccgcca cgtgctcggt gagcactggc   540
tccaagcatg gcagctgcca tacaatccac ctgtagaggg gcccgnccct ctgtgctcaa   600
aggatgg   607

<210> 2936
<211> 1071
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (929)...(187)
<223> similar to gi3876090 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2936
tttttttttt ttctaaagct ttatttattt tataaaatgc atagaataaa ttatactagt   60
aacattttaa aaattaacat ctttgtattc agcagtcctg ggtcaggagg caggaggaga   120
gtagtgggga cgggatggct cactgggcag ctaacccgtg taggccactt cctcctcgtc   180
actgccatcg gggaccgcgt ctgtcccaaa gtagcggtcg ccaaagttcc caatgcctgg   240
gatgatgcgg aaaaggtcat tgacccgctt gtccaccgcc gtggtgatga ttctcactcg   300
cggaaatgca taggccactg agtgcacgcc catctctgcc atgagcagcg acagcaaaaa   360
gatcttgtcc tcaggcacgt cgtggtccag gagcacgcgc actgccatca tggccgccgc   420
gcccgtggac acggtgcagt ccatgaggat cacgtggtca tcgctgatgt ccttgggcag   480
cctcaggtag tggagctcgg gcagcagggg tcaggctcgg gctccccggt aagctggttg   540
gtctggatga ggatggtgcc gatgcgcacg tctttgcaca cagcgcgcag cgcgggctcc   600
atggtttcac cggcgcgcag aatggacaca ccggtgatct gcttccccgc atagcacttg   660

```
cccgcatagt cctgcccctg cggggtctgt acgacgcagt cctgaaaggg caggaaggag      720
agcgcgtgct cgatgagcag ccgcatcagt ctcttggagt agaagatgaa ctcgtcgcga      780
ctggtctcct tgtccctgtg gggccaacag ttgagcggga gcacgcgccc ggggccgccc      840
cgtccccagg tgggccctca cctgatgatg gtgtgcatgc cccgtacctg cggcgtgctc      900
ttcaggacgc tcagcgtccg gggcagcggg tggcactggt gtgccgaggc cagcgcagcc      960
ctggggacaa accgatgggg aacactcaag aaggggggtct tttcccagag ccctccctcc     1020
ccacaggacg gctgtgcgtc actgtgaggg gaaccctcgg ccaagctggc g               1071


        <210> 2937
        <211> 1586
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1583)...(1239)
        <223> similar to gi1872200 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 2937
ttttttttttt ttatactttta tgctttactt cttacttcaa acatacatcc ttgattaaag       60
aacaaaaaca actcactgaa gggtgataaa ataatcaaaa tgtatttgcc cctgaaagtg         120
gaattactac ctcaaaaaga atacaactct ttcattttcc ccaaaataat catgtgagtt         180
catgggcatg ctcatcactc gctgtctgtg tggaaaaaaa aaatcgaaga ggggatttac         240
tggactgaac tggcctaggg agcctttgct gggcatctct caggactggg actgcaggcc         300
cagatccctt ttactcagga tggcatggca cttaggaaca tggaaaacag ttaaggataa         360
acggctgggt gggtatttat ttaccttata ttgcaggaaa cattttatg acttccctaa          420
ccctggtttt ccaattagga aacatccccc acttaatgga aattgtcaat aaatgctggc         480
tcaaaccacc ctccccaaat actgaaaaac agtacatccg tttctctggt acccttgcca         540
agttgtctgc aaatgctttg tcgatttttc tactgagtta gacaaacttg tgattttttt         600
ccctttcttta acacaaattt aaaaagtagg aaacaaaacc tagtggataa aatgacatat        660
tttcaatatg agttctgtgg cagtctcaca tggaagtcag gagtaacagc ctcaattcct         720
aaatagctgt ttaccactgc ttttctgagc atatttaagt aatacagaat ataaaggagc         780
aaacaaaata tgaagtttat aaaagatttc aaacactttt ctaaaaatat gaggcccata         840
ttttagaggt atttcattcc ttttctcaaa caatatggag atttataaat atgagaatat         900
atagatatac agaccttaat aaatgaagtg ttcttaaaaa ttttatatgg aaaaccagtt         960
agctttaatt tcttcacaat ttttatggat ttatccagat caaggacaac ttatgtggca       1020
gctatccgaa aatcaggcta acaggaaccc caaaatttga aaataggaat aatattagca      1080
agagaaaaac ttcaattcta tgtgacacaa taaattacca aagtgaattt tacttacaat       1140
tagctaagaa aaacaagaaa gaccatctga acttgcaacc cagtggcttg acaaaagcaa       1200
tccaaaactt taaagttggt aagccaaact aacaagggtg acttgaggct gggcacagtg       1260
gctcatacct gtaatcccag cactttggga ggccaaggca ggtagatcac ctgaggtcag      1320
aagtttgaaa ccagtctggc caacatgggg aaatcctgtc tctactaaaa atacaaaaat     1380
tggctcggca tgatggtgca cacctgtaat cccagctact cgggaggccg aggcaggaga     1440
accgcttaaa cccaggaggc agaggtcgca gcgagccaag atcatgccac tgcactccag     1500
ccccaaaagg ctgctccaca atggatgtgc tgtggcgtat actttagaag cctttgtctt     1560
                                                                      1586
cccggacgcg tgggcggacg cgtggg
```

1744

<210> 2938
<211> 1012
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (42)...(786)
<223> similar to gi560151 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2938
```
gaggaaggct ctcccgccca tgacgggatg ggaaaactat gcctggggcc gacgctctgc        60
ccggctgctg ccgctgagga aagccgggac gcggagcccc gccgagagct tctttgctcc       120
ggacgcccct ggacgtggcg ggcagccgcg agggtaacca ccatgatccc ctgggtgctc       180
ctggcctgtg ccctcccctg tgctgctgac ccactgcttg gcgcctttgc tcgcagggac       240
ttccggaaag gctcccctca actggtctgc agcctgcctg gccccagggg cccacccggc       300
cccccaggag ccccagggcc ctcaggaatg atgggacgaa tgggctttcc tggcaaagac       360
ggccaagatg gacacgacgg cgaccggggg gacagcggag aggaaggtcc acctggccgg       420
acagtgacca agaagctacc cacgggagcg gctgcccatc aagtttgaca agattctgat       480
gaacgagggt ggccactaca atgcttccag cggcaagttc gtctgcggcg tgcctgggat       540
ctactacttc acctacgaca tcacgctggc caacaagcac ctggccatcg gcctggtgca       600
caacggccag taccgcatcc ggacctttga tgccaacacc ggcaaccacg atgtggcctc       660
aggctccacc atcctggctc tcaagcaggg tgacgaagtt tggctgcaga tcttctactc       720
agagcagaac gggctcttct atgacccta ctggacagac agcctcttta cgggcttcct       780
aatctatgcc gaccaggatg accccaacga ggtatagaca tgccacggcg gtcctccagg       840
cagggaacaa gcttctggac ttgggcttac agagcaagac cccacaactg taggctgggg       900
gtgggggtc gagtgagcgg ttctagcctc aggctcacct cctccgcctc ttttttccc        960
cttcattaaa tccgaaacct ttttattcat ccaaccatct atttattcac tt             1012
```

<210> 2939
<211> 1991
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1994)...(1385)
<223> similar to gi4929603 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2939
```
tttttttttt ttctgatcca tgcatccttt attccattac caaccactgt gccgcatcca        60
agcaacagta cacaaactgg caatcaaccg cagtccagtt gtacaacgat ctgaggctta       120
cagtacattt aaggctttta aatgtggaaa aaaaaattaa aaccaaagaa cccccaaatc       180
```

1745

```
caaacccta accaacacaa gtagtatagc aatgttaagc atctcctatt tctgatgctt      240
atttggcgca acttccagtg tcaaacccca aataattcct aaactaaaaa gattagttta      300
gtgaaatttt aattacataa attcttcaaa gcataaactt ggaatttttg tcttggaaat      360
gttataaaat ttttaatagc aaaacatagg aataaaaaca tattaacaaa atgtattcaa      420
tcatttacat tacaaacaag gaatctgcag ttcattgttg tagcctgaca aaagaaatca      480
tatctaccat taagaatcta tgcacaatgt gattgcaaat atgtacagta ctttaaaaaa      540
gcctacaagg aggactttac agaaggaaag tcagctaggc tctttgttaa accaaccaga      600
caatcaaaat agtaaaactc tgttggctag taataaattt acacttaaaa aaaccccctag      660
tttctttttg tttaagaata ttccagttat atttatatgg ttacagttga tgaagctgta      720
cacgagagtt ccagtaaatt acccttcagt tcatttgtcc gggaaagatc agcatgttaa      780
caaaaaataa taaaggaatt ttcaccacac tagctttcca gttacactat cacagcttca      840
caaatggatt gaacccatgt atccagtggc agaaagagag ctgcatgtga ataccgaga       900
acattggtgg caacagggca agtcctgcat gaatgtcaga aatgatggat aaggttgaga      960
aacagatgcg aggctacttt atacagcact agaaaattgt ccctacattc agctctcatt     1020
cccattcctg caaggtaatg aagctgggaa tcacgactgt tcagtttaac gtgttgtgtg     1080
aattagcaga accacctcta gatacaaaag actgagattt catcagctct ttgattagaa     1140
caccctaaag gttgggcact tcttcatggt tatcaagcct ttacagctac ccagttaaag     1200
catgtgcaaa acagaggact cttctgttca cagtaaatga ggtaagatca agttgttgtc     1260
ttcaggaatt aggaagttcg tgagatatga actgttttag tctttctagg tattgtgcat     1320
aaagctctat gtcattatgc ccagcccctt caacccaaag gggctccacg gctcggggac     1380
agcgctcgta catcgctagg ccatgggaga aatcgatgac ctcatcctct gtaccatgaa     1440
tgaccaacac aggagaggtg actttagata tcttgtcaat gctggggaaa gcatcaaagc     1500
agtatgtttt cctggtatcc ggaaaagcca cacgcaaacc agacatcaga ggggaatgga     1560
gaattaccgc tgcgcattca tacctcgagg ccaagtctac cgtggggaca gtcccaatgc     1620
tctgaccata gaggataatg ttctcgggac tcacgccata ccgggtgcgc agcgcctgcc     1680
acgcggcgtc gatgtcggcg tagaggttct tctcggaggg cttgcccgag ctgacgccgt     1740
atcccgagta gtcgtaggag aagatgttgc agttgatgcg ggagccgagg ccaatgtaga     1800
agctgcacat ctggcccagg tccacggcgt tgccgtgcga gaagagcagc gtgtagcggc     1860
tggagggcgc gcagcgcacg aacatgcagc cgagccggtt gtcccgggcc gtgcgcgaga     1920
agaagacctc gacggcgttc cagcccgctg cgagtattgc cagtcggcgc gctcgctgag     1980
gtgcaggctg c                                                          1991
```

```
<400> 2940
tttcctgtgt gaccaaagcc aaaggctaaa cctggctgca tttttattgga tgggtgatgg      60
aagtgggtgg gagtactatg gtaaaggagg gatatatggg tgggagccac caacaaaagt      120
cccccatccc cctcccccaa cagaaaggag agagacaacc ctttcccctc aggtgatctg      180
gaattccagg gcctctgcca gctttgcagg aggtgcacag aagctggatg cttttggtct      240
ggtggccatg agctagactc tgttgccttt ggttgctttt cactccacag caaacccgca      300
ggtctcctcc acggctgtca gcagcttctc gtagagcttc tcataggact catatggtgg      360
```

```
aatgtcgatc cggttaaagc aggtatgggc cttcggaagg ttgtctgtgt tcgcgtctat    420
caggtggatg gtgaacagcc ggggccctgc cgcgcctgta gatccttgca aagccttgaa    480
gccttggagc gggactcgcg tggacccagt cacaaactgc aggagcctgg ccctcctttc    540
ttcatcgaac gtctccaccg cttgccagaa ccaccgcacg atgttgctgt cggccacaca    600
gtgcttcagc cgcgtgttcg acttccagtc gttcaagtct attttatcca ggccgcctat    660
gatcagctcc agttccttct ggtcaaaagg cttcagcaga tgttgaggga tgagctcatt    720
gaacccttc tgcagagcta agaactgggc ttcgattcct ctcataaacc tccagtttac    780
atacaaccgg acgtatttct ttcctattct gctcctgtga ctggcacatt ctgcccattg    840
ggtttcagtt acatgcgcag gattcggccg aa                                 872
```

```
     <400> 2941
accagtaata atagttttat ttgattttaa aatagtcatc aatgtgaaaa tttctcaaag     60
cttaagagta acagtctaga gccaaggttg ggagtggggg ccaggcctca cacagagccc    120
agcttgaggc ccctgagccc caccctcctt tccagaggga gggaggagac agctgaggggg   180
gccctgaatc agtcctctcc ctcgtcccca aggccagctg tgccaggccc ctggagggca    240
acagctcatg cggaggactg gggggggaag caaacaggta ggaaacggaa atgaggttaa    300
caattacacc atcacccca aaaaaaaaca aaataacaaa acttgtgact atgaaaggat     360
ggaagatgaa tactgataaa ctcctcagct ccccagaaaa gcccagtctg ggctgggttg    420
ggctgattgg aggaaaggtc ttgagaccca actgcatgtt acctctgaag aataaatatt    480
ctaagaaaaa gggaaaacca tgaggcaagc tgctgcagtc agtcaacgca gctgacaggc    540
ctggcatggc ccacaacctg accccatcca cacaggaaac agctgtgcgg gtctggatag    600
aggagaggtc aagggcttgg actggggacc ctgagctgcc aaggtgtggg gactccttgc    660
agtcctggtg cagcaatggc aggaaggcca gcaggggccc tagttgagca ggttgccctg    720
ctcctgggcc tgggtcaggc tgtccttgcg gtgcaggtgg tgaaccccca tcctcttggg    780
gctgcgctgg gggcgactgg agctggggag tggccaggcc ctgccctcgg tgtgggaagt    840
gcctggcccc tcctctgtgc ccctgttaat gggcagcagg ctctggcgct cttcctcagg    900
actgataggc aggttcagct cttcttcctc cctgggaaag ccagagtcag gttctgtggg    960
tagcaaaagc tcactctctt cgggtcgggc agaaggtgcc tggaccacct catctctgtc   1020
agcggggcta tgggcaaaat ggcgctgcag ctcagggagg gcatcgcgtc caaaggctgt   1080
gcgctgggcc acagcagcag gtggtggagt acgtccaca aatgcccgct gccagctgac    1140
cagcaggtcc tcttcagagc tggcagagct agctggggca ctgagtgtta ggggtgctgg   1200
gctgggctgg tggtggggtg aggcctgggc tgaggcaggg gtgctgggca ctgggctggg   1260
gcgggcccgc tcactcccct cctctaccag gctcagggaa atggcctggc gggtagcgta   1320
agtgcagttg ggcagggggc atgttgcggg ggatccgaac cttatcctca gagaactcta   1380
ttaccctgcg gccaggatac agtgggtgtg gtggagacgg ggttgggtag gggttcagct   1440
tctcaaaggc tggcagggc agctcttcct ccggggagcc cctgtgagta cccagagagt    1500
ggcactcccc attgtgttgt ggggtggggc tgccatgtgc ccgggggact ggctggaata   1560
actgggacac cctcactcat gtccacatgc acaaagacat cctcagccaa ggggcgcccg   1620
gcgctgcctg actgggctga attgagcagt agagactccg gcttctctaa cactcgggca   1680
```

```
atgactgagg taggcaccac agcccctggg gctaggctgg gagcaggacc tgggctggcg    1740
gcctcttgac cactgtgcaa atgtttccga accatgtcct gtagctcaca gggcagctga    1800
ggtaaaagag caggaaagag agacatcaat gatcgcagcc aaagataact tgactcatgg    1860
cgaaagtaat ggctcccacc tttaagtacc tctgtgtact cagcactctg ctatctcctg    1920
ttcttacagc atgccagtgt gtataccctc acttcacaga cacataggcc tggagagggg    1980
aagacaactc aaagctttgg ttaacttggc caagatttaa acccggatct gctgctgcag    2040
ccagcatgtt ctcaaacttc tatctcccag cttctgccca aaccatactt aagtttggag    2100
aatctgcata gaccagtagc cttagaaata cctctacttc tgggccgggc acagtggctc    2160
atgcctgtaa tcccagcact ttgggaggcc gaggcgggtg gatcacgagg tcaggagatc    2220
gagaccatcc tggctaacac gatgaaaccc catctctact aaaaagacaa aaaaattagc    2280
caggcgtggt ggtgggcgcc tataattcca gctacttggg aggctgaagc aggagaattg    2340
cttgaagccg ggaggcggag gttgcagtga gccgagattg tgccactgca ctccagccta    2400
ggtgacagag caagactccg tctcaaaaaa aaaa                                2434
```

```
      <400> 2942
ggcgtgtgct gatccgccat cccactgtgg agatgaaggt gtgtgctgat cccccatccc      60
cctgtggaga tgaaggtgtg tgctgatccc ccatcccccct gtggagatga aggtgtgtgc     120
tgatcccccg tcctcctgtg gagatgaagg cgtgtgctga tccccgtcc ccctgtggag       180
atgaaggcgt gtgctgatcc gccgtccccc tgtggagatg aaggcgtgtg ctgatccccc      240
atcccctgt ggagatgaag gcgtgtgctc atcccccatc ccctgtgga gatgaaggcg       300
tgtgctgatc cccatccca ctgtggagat gaaggtgtgt gctgatcccc catcccctg       360
tggagatgaa gggatatgct gatcccctgt cccctgtgg agatgaaggg gtgtgctgat      420
cccatccc cctgtggaga tgaaggtgtg tgctgatccc ccatctccct gtggagatga      480
aggggtgtgc caatccccg tgccctgtg gagatggagg cgtgtgctga tccccatccc      540
cctgtggaga tgaaggtgtg tgctgatccc ccatccccat gtggagatga aggggtgtgt      600
tgatcccctg tccccctgtg gagatggtgt gtgcgaattc caccgcntgg tctaatggtc      660
atcagttcaa g                                                          671
```

<210> 2943
<211> 1821
```

<400> 2943
```
tttttttttt ttctggtacc caaagggtcc tttattcttt atcatcctat ttgagtttta    60
ttgtttttac acagctggga aatgcttaag gtacaaatta ataaatttta aactcagtat   120
ggaaaataca tttaataaat taaagcaaaa accaaagatc tgaggagatc caagagatca   180
agacaatctg taaccagagt ctgaagtatc caaggagcta ctttttttgg aggcatattc   240
tcctcagctt ccagttatca tttgataaac acatcagcaa aaggttcagt gttttaaaca   300
aatgtagact ttattttgta ctgtacaaag tgctaatgtc agtagatcca ttaaaatata   360
gaatatttaa gaaagatcat taataaaagt aatggtcatt caatttaatg ttacagttta   420
cagcgtttta ctgctagtgt tttaagtcag catgagcagt atcaaagtac ttatgtagct   480
agtttctaaa actttacaga aaacccagta caattccaag tgcttatagc caatataagc   540
atatttcata ttagaaatag ttatccatat gttaacaaga aactatggtc ctcaaatatg   600
ccaattttag agtctaataa ctactgatag taactatgta aatattttgg aataaacagt   660
tatttacgca agccacactt cagctgagat gatcactaga catctgtttc cagagcttca   720
acaatgtgtg cagcagaagg acgatcttta gggtcttcat tagtgcatac agagaagagt   780
tcaattactt tctggtatga ttcatccagt tcttccatat taataggtgg cctagttccc   840
aacgctgcat agtatgcttc atcatcaaaa tcactttcat caaaagtttt atcttcatca   900
tcatcatcat ttgaaagatt aatgtgtgga atcgataaag tcatcatttc ccacaaagta   960
aggccaaagg caaatatgtc tgccttgtca gtaataacac cattctcctc cacagcttct  1020
ttgggtttcc atggctctgt gccaatgtaa caagcctcag ggtcagtcac agtcatattt  1080
tcatccagtg gtagagagac tcctacatca cagattttaa ttgtttcaaa atcgccttta  1140
attacaacat ttgaagactt tatgtctcca tgaagcagtt tcttttcttg gtgcagatac  1200
tttaaccctc ttgccatatt caaagcaact tttaaaatta tggctgctgg aaaaggatct  1260
tggctggctt tatatcgttc ttctattaag tcatttagag acttttcacc tccatattcc  1320
atagcaagac acagactgcc atcattggct tcagtaaaag cacgataacc aacaatgttt  1380
ggatgatgaa ggcttttcaa aatcttagct tcatccatta gtctcttttg atacacactt  1440
cgataatgat cattacatat aggattaatc ttttttacag cccaaggaga atgagacaaa  1500
cctcttggag atcttttcat taggtacaca tttaccccag taccaaagcc aagcttctgc  1560
ataaacggag aggccgggat atttatagtt ggagttgaac ataatacaga tttcttttttt  1620
tctgataatt tgcttggtgt cttgaaatta ctgatccctt ccattgtgaa agccactctc  1680
agtccagagt ctcaccgcct ggaaggaaag gtcggaggtg aaaataagtc gtggccaagt  1740
acctcttcaa aattggtccc gagcggcccc cagcgagacc ctgcagctgc ctctagcacc  1800
aacacatacg cccgctcgtg c                                            1821
```

<400> 2944
tccacatcaa aatcccaagc aagcggtttt ataaaaactg acaagctcat tttaagtcat   60
atggaaatgc aaagggcctg caacagccaa aatatatttg aaaaagaaca aagctaaaaa   120
actgttgcaa cctgagttca ggcctttttat aaagctgtag taatcaagac aatgtggcat   180
tgccaccaaa atacacaaat aaatcaatga aacagtactg ggagtccaga aatagatcca   240
tacatccata gacaactgat ttctgacaaa ggcaaaaggc aattcagtag gaaaagcgta   300
gtttttcaac aaatacaact gaaacaactg gacaatcatg cccaaaaaag cctt   354

<210> 2945
<211> 1498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(136)

<400> 2945
aaaccctcaa atatatggtc aagtaatttt cagaaaggat gccaaggccc ttcaatgggg   60
aaaggacagc cttttcagag tggtgatggg ggatctggat agccacatgc caaagagtga   120
cattggaccc ttataacata ttcaaaaatt aactcaaatg gacaaaaata taaacataag   180
agctaaaact ttgaaattca gccttagttt gactgctaga acaaagtacc gtagaccggg   240
tggcttataa acagcaaaca ctgatttctc attctggagg tcagacatga gagaccacag   300
tgccagcacg gttgggttcg gatgaggcca ctcttcccgg tggcaaactg ccaccttctc   360
ttgtggaaag agcttgctag cctccagcct cttcttataa gggtactggt cccattcatg   420
aggactccac cctcattacc taattaccta gcaaagattc cacctccaaa taccataaca   480
ttggagtatt tcccatctcc ccccaaaaaa gtgccaaatg gtctgatgta aaaggaaaaa   540
aattcagtca ctgtgctcca gatctgcaaa ttgcacatct tgattttcag caccataaag   600
acaatcattt ggaagatccg gtgatatttt ttctctttaa tgcaaatgtt ttggtgtcaa   660
gcagattgaa tttgtgggga ggtgtcctgt tagtgtggct ggtcactgac cattcagaag   720
gaagaaaatg tgaaacagat tgctcaagtg taaaggagtc tgaaaatgtc tgtcctcaag   780
cctgcaagat ttggaaccgt tctgcgtccc ttttccatag atataggaat aataagtctg   840
gattcagtag agtcatttga ccagccagcc cctcagggtg gtccctgggt ctgggcagcc   900
atgctctccg gagctgccct tgggggcaac ttccagggcc aagccagaga ggccagagct   960
ctagactaac gttagagttc caagtgtacg cagcagagaa gacagctatg ctgtgtgtgt   1020
gtgtgtgtgt gtgtgtgatt gtgccttctg tggatatcgg ctagggactg tctcaggaaa   1080
gcctctgcct ttggcgtgtt tactggctgt caaaaccctg cccacagcct tatagacccc   1140
caaagaaaaa tgttctcatc cttactccag agatgttcaa acaggagtga ttgtctgaca   1200
gtgactacac tcacaggaga atgacaaaca gcaaggccca gctgtccctt ggtaccctca   1260
ggggattggt tctaggacct ccaaataaca ccacagtccc agcatgctca agtcccgcag   1320
tctgtcctgc tgaacccatg gacaaaaaag gtcggcccct ccgtatgaga ggcttttcca   1380
tctcatgaat acacattggg ttgaaaaaaa tctgcgtttt agtggaacag ccaggtttaa   1440

acacattgtt gttcaacggg tccacttgta ttcattcaca atacagattt cattttag   1498

<210> 2946
<211> 2420
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1966)...(1071)
<223> similar to gi1255411 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2946
tttttttttt ttgctcataa acaattttat ttttttttctc agtatgtgcc cttgaagatt   60
ccaaaatgtt ggagtttctg attctcctgg gatcaaaggt aaaagcattg tatggaaaca   120
ctcaaccttg gctcattacc ctcctgagga gctaagtctg gaggcctcag agagagggag   180
ctgacattca caacttattc caagatgggt aacccagtga acaaagaatt agtaaaacat   240
agactcagtc tgtagagggc ttcaaatata catattctat atatataaac ctgttatata   300
ggatttcaac ttattggttt ccttgtgatt tgtaattaaa gtacaaatta taaagatgtt   360
gcacactgct gatttcccct tctcagcccc cctccctccc aacataaat aacattacaa   420
aggtcaggtg atcctaagaa ttttttgttgt tgtaaatatt ttgttttttaa aatcatattc   480
cccttcctcc cctgcaaact acctctgaga gtttgtaaca cagcagcatg gaatggacaa   540
gactggggac agcatggagg tctaacggag agagcgcaga acgttgcttc tcactgacgg   600
gcaccagatg ggcttccgca tttccattga caacagaggc tacgacagga agcagagaat   660
gtgcaatgcg gcttcatcct cctccaaaga gaaggctagc tggaccactg agaaaagccc   720
taaaggcatt gaggttttttg gagacagagc acagctccag aaatgtcttg gctcagtatt   780
tacacaatat cttgaagctg cactttcctt ttaagaaatg tgtgtttctg aaggtgcctc   840
ttctgaggtt ggttggggga aaggagaaac gtaaaaacaa aaacaaacca attcccacat   900
atgtaaaagt cctgttataa gtcttagtta ttttcacaca catcattaat agtagatact   960
gacaatgatt ggtttctttt cttattcttt tttttttagag catgagtaaa gagaaagaga   1020
gaaggaagaa gtgcactaag gagagcgccg tcccttcttc agcattaagt gacactggat   1080
ggtctggatt cggttcttgg ctgggacaaa ctcgggctga agcttcaatg tggattcata   1140
ccacaccagt gcttttttcaa attcttccat tgccacgtag acattgccca gagtgaagtg   1200
gttcacagca aagtgtggtg cgatctctac tgccatggtg gctactatga cggcgtcatt   1260
ccagagcttg gcattgtgca agatgttggc caggctaatc aggggcacat ccttcatctg   1320
gtgtggcgca tagtgcagag cctggcggag gcagtcgatt gccttcttttc cttggccttt   1380
caccctccag tagagggctg ccatgctgga gaggacccag gacgtctggt tctttttccaa   1440
aactttggca attcgggtgc caatctgttc aagcgactgt tgtggatatt ggtctttgcc   1500
gagattttgt aatacctctg ttaactgact ctcccctgtg tagtgcaggc tggctcggtt   1560
ggaaacccca tgcaagtggt ccagggtatg catactcgtg gggagattgc cattgcaaag   1620
aggctccatt gctggctgct gtataggggt ggcaaaatct atgtgttctg tgatgtcaat   1680
gttttttgaa gaaactgcaa gccaggtact cacgatggca gtcagctcta cccagcggag   1740
tttgaggcat tcgtccgggc tgggccatcc cagacgctgg tagtcacgtt ttttttccttg   1800
tggcccagga gatgccacct tggggccagt gatctctagg tttgcttggt aacgatgtcc   1860
attttctatc tgacctgttt ctactttttt cccaggagtt ttcttatgat ctcctttggg   1920
tttctttaca cgtttgacct ggaatgtaat ccattctgtt gcttcatcat cttcacttct   1980
gcagtctcca tagcaagagc ttctggccac tccatcctgg gacctttct tcagcacccg   2040
tattccttgt aagtctagac gccgcccttt catctctagt gcacccccaa agccttccaa   2100
aggccatgcc tgttgaaatt catccaccaa agccagtatt tcttctgaca ttttggtttc   2160

1751

```
atctgaattc tccatctcat cagaaccatt gctctcctca accaccgtac tttcaagtct    2220
aagggcatct gagtccctcc ctgaattctc aacagagaat acagggtcct cctctgttcc    2280
tctctcagag ggctcttctt cagcagcatc cagtgactgt gagttgtcaa aatatttctg    2340
tttgtcatgg ctgttgtcca gggttttctc atgacaatta ccactgcaaa cagaagaagt    2400
                                                                     2420
gatgttgtac agaaaaggat
```

<210> 2947
<211> 1770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1771)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (21)...(344)
<223> similar to gi3002527 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2947
```
ggaattcccg ggtcgagggt tttgttttgt tgctgttgtt ttttgagacg gaatctcgct      60
ctgtcaccca ggctggagtg cggtggcaca atctcggctc actgcaagct ccgcctcctg     120
ggttcacgcc attctcctgc ctcagcctcc cgagtagctg ggactacagg cgcccgccac     180
cacgcccggc taattttttg tattttttta gtagagacgg ggtttcaccg tgttcgccag     240
gatggtctcg atctcctgac ctcgtgatcc gcccacctca gcctcccaaa gtgctgagat     300
tacaggtgtg agcccccgcg cccagcctgt tttttgtttt tttttagta cctgactgaa      360
agagactagc aaacaactcc tgaaaatctg taattgtagt aaggttacta cacggtaaga     420
agtgaagccg caaaataaaa acttccattt tattttcctt taggagccat ggagcatatt     480
ggcaatttgg ttctgactcc taaaatcatt ttactatacc tttacactgc ctacattgga     540
gactgcaagc agtggaaaag aatagatact ccagatctcg tcgataaacc caggctcctc     600
ctaaaccagc cagattcaga gagaaaaacg agctggcctg ccttattgta ttacttgcca     660
tcaaggttca atgtggttct attacccagt aaagtcattg accaaacaag gtattttcac     720
aaagctaacc ttttttaaaa gcatgtaaaa attgtacatt tgtacatata cgcattacaa     780
ttttacatcc aaagatcaaa tagttaacag ttcatttagg gcttttgta ttgtttgatt     840
ttccagattc tgtcactccc ttggctttga cctaacctga catcattctg tcacattatc     900
ttctaaatca agtaaacgtt catttgtctc agtaagcaca atctatctgg gtgacaccag     960
agaggtttct gaagggtctg gtgtacgctg aggcagtgaa ataggtctgt ggcacaggt    1020
aagaaggaag tggcatgata aacatcacaa ccccagggaa cagccttcca gagtggcaca    1080
agcactccca ccgagatggt ccagtgccca cccgttaaag agtcaaaacc caaagttact    1140
gagtgtccca caaagcaagt cacactagct ctcaaaggaa gtgagctgtt tcaggactca    1200
atgaagcagg gtcactttga acactggtgg tttgacatct gtgaaagaag tcatttgaac    1260
tcttataaag agaattaagg ggtcagcagc ttccctggaa aatgcaggaa aaccaataag    1320
agagggaca gttttcatct tttcataaag ttcttctcca gagctaccga agttctctgt    1380
aaagagtaga tattccgctt cacccgatcc tccagggagg aagtagatgc actctccagc    1440
ttcatgcggt ggatgaactt cccatcccgg gagtccagct tctctagcct ctgctcccgt    1500
tcctcatcct tagcatgcct cttgaggatg ttcagtctct cctcctccct ccatttggcg    1560
ttttccatca tctcttgccg ttttcgctct aattcctctg cagagagttt tctggtgtat    1620
```

```
ccgggagcat gtcgcctttg gtagacctct tttttaggtg atgggctcct agtttggcct    1680
gtctctctcc tgttcacctt agagttgtgc agtttgctgg gtcttggctc gtgccgaatt    1740
cntgcagccg tcgaaggcgt caattctctt                                     1770.


        <210> 2948
        <211> 4242
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2)...(4036)
        <223> similar to gi4240225 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters



        <400> 2948
agcgccgccg gccgggaggc gaaggatgca ggcggctccg cgcgccggct gcggggcagc      60
gctcctgctg tggattgtca gcagctgcct ctgcagagcc tggacggctc cctccacgtc     120
ccaaaaatgt gatgagccac ttgtctctgg actcccccat gtggctttca gcagctcctc     180
ctccatctct ggtagctatt ctcccggcta tgccaagata aacaagagag gaggtgctgg     240
gggatggtct ccatcagaca gcgaccatta tcaatggctt caggttgact ttggcaatcg     300
gaagcagatc agtgccattg caacccaagg aaggtatagc agctcagatt gggtgaccca     360
ataccggatg ctctacagcg acacagggag aaactggaaa ccctatcatc aagatgggaa     420
tatctgggca tttcccggaa acattaactc tgacggtgtg gtccggcacg aattacagca     480
tccgattatt gcccgctatg tgcgcatagt gcctctggat tggaatggag aaggtcgcat     540
tggactcaga attgaagttt atggctgttc ttactgggct gatgttatca actttgatgg     600
ccatgttgta ttaccatata gattcagaaa caagaagatg aaaacactga aagatgtcat     660
tgccttgaac tttaagacgt ctgaaagtga aggagtaatc ctgcacggag aaggacagca     720
aggagattac attaccttgg aactgaaaaa agccaagctg gtcctcagtt taaacttagg     780
aagcaaccag cttggcccca tatatggcca cacatcagtg atgacaggaa gtttgctgga     840
tgaccaccac tggcattctg tggtcattga gcgccagggg cggagcatta acctcactct     900
ggacaggagc atgcagcact tccgtaccaa tggagagttt gactacctgg acttggacta     960
tgagataacc tttggaggca tccctttctc tggcaagccc agctccagca gtagaaagaa    1020
tttcaaaggc tgcatggaaa gcatcaacta caatggcgtc aacattactg atcttgccag    1080
aaggaagaaa ttagagccct caaatgtggg aaatttgagc ttttcttgtg tggaacccta    1140
tacggtgcct gtctttttca acgctacaag ttacctggag gtgcccggac ggcttaacca    1200
ggacctgttc tcagtcagtt ccagtttag dacatggaac cccaatggtc tcctggtctt    1260
cagtcacttt gcggataatt gggcaatgt ggagattgac ctcactgaaa gcaaagtggg    1320
tgttcacatc aacatcacac agaccaagat gagccaaatc gatatttcct caggttctgg    1380
gttgaatgat ggacagtggc acgaggttcg cttcctagcc aaggaaaatt ttgctattct    1440
caccatcgat ggagatgaag catcagcagt tcgaactaat agtcccttc aagttaaaac    1500
tggcgagaag tactttttg gaggttttct gaaccagatg aataactcaa gtcactctgt    1560.
ccttcagcct tcattccaag gatgcatgca gctcattcaa gtggacgatc aacttgtaaa    1620
tttatacgaa gtggcacaaa ggaagccggg aagtttcgcg aatgtcagca ttgacatgtg    1680
tgcaatcata gacagatgtg tgcccaatca ctgtgagcat ggtggaaagt gctcgcaaac    1740
atgggacagc ttcaaatgca cttgtgatga gacaggatac agtggggcca cctgccacaa    1800
ctctatctac gagccttcct gtgaagccta caaacaccta ggacagacat caaattatta    1860
ctggatagat cctgatggca gcggacctct ggggcctctg aaagtttact gcaacatgac    1920
agaggacaaa gtgtggacca tagtgtctca tgacttgcag atgcagacgc ctgtggtcgg    1980
ctacaaccca gaaaaatact cagtgacaca gctcgtttac agcgcctcca tggaccagat    2040
```

1753

```
aagtgccatc actgacagtg ccgagtactg cgagcagtat gtctcctatt tctgcaagat    2100
gtcaagattg ttgaacaccc cagatggaag cccttacact tggtgggttg gcaaagccaa    2160
cgagaagcac tactactggg gaggctctgg gcctggaatc cagaaatgtg cctgcggcat    2220
cgaacgcaac tgcacagatc ccaagtacta ctgtaactgc gacgcggact acaagcaatg    2280
gaggaaggat gctggtttct tatcatacaa agatcacctg ccagtgagcc aagtggtggt    2340
tggagatact gaccgtcaag gctcagaagc caaattgagc gtaggtcctc tgcgctgcca    2400
aggagacagg aattattgga atgccgcctc tttcccaaac ccatcctcct acctgcactt    2460
ctctactttc caaggggaaa ctagcgctga catttctttc tacttcaaaa cattaacccc    2520
ctggggagtg tttcttgaaa atatgggaaa ggaagatttc atcaagctgg agctgaagtc    2580
tgccacagaa gtgtcctttt catttgatgt gggaaatggg ccagtagaga ttgtagtgag    2640
gtcaccaacc cctctcaacg atgaccagtg gcaccgggtc actgcagaga ggaatgtcaa    2700
gcaggccagc ctacaggtgg accggctacc gcagcagatc cgcaaggccc aacagaagg    2760
ccacacccgc ctggagctct acagccagtt atttgtgggt ggtgctgggg gccagcaggg    2820
cttcctgggc tgcatccgct ccttgaggat gaatggggtg acacttgacc tggaggaaag    2880
agcaaaggtc acatctgggt tcatatccgg atgctcgggc cattgcacca gctatggaac    2940
aaactgtgaa aatggaggca aatgcctaga gagataccac ggttactcct gcgattgctc    3000
taatactgca tatgatggaa cattttgcaa caaagatgtt ggtgcatttt ttgaagaagg    3060
gatgtggcta cgatataact ttcaggcacc agcaacaaat gccagagact ccagcagcag    3120
agtagacaac gctcccgacc agcagaactc ccacccggac ctggcacagg aggagatccg    3180
cttcagcttc agcaccacca aggcgccctg cattctcctc tacatcagct ccttcaccac    3240
agacttcttg gcagtcctcg tcaaacccac tggaagctta cagattcgat acaacctggg    3300
tggcacccga gagccataca atattgacgt agaccacagg aacatggcca atggacagcc    3360
ccacagtgtc aacatcaccc gccacgagaa gaccatcttt ctcaagctcg atcattatcc    3420
ttctgtgagt taccatctgc caagttcatc cgacaccctc ttcaattctc ccaagtcgct    3480
ctttctggga aaagttatag aaacagggaa aattgaccaa gagattcaca aatacaacac    3540
cccaggattc actggttgcc tctccagagt ccagttcaac cagatcgccc ctctcaaggc    3600
cgccttgagg cagacaaacg cctcggctca cgtccacatc cagggcgagc tggtggagtc    3660
caactgcggg gcctcgccgc tgaccctctc ccccatgtcg tccgccaccg acccctggca    3720
cctggatcac ctggattcag ccagtgcgga ttttccatat aatccaggac aaggccaagc    3780
tataagaaat ggagtcaaca gaaactcggc tatcattgga ggcgtcattg cctgtggtga    3840
ttttcacccc atccctgtgc accccggtc cttccctgat cccggtaaca tgtttccccc    3900
cacaagggca ccctacccat acccaacgaa gcaaggggg ccggaagtcg gcagaagaag    3960
cccggacgcc gcccatccat gaacaacgac cccccaactt cacagagacc cattgatgaa    4020
agcaaaaagg aatggcctca tttgaggggt ggctacttgg ctatgggata gggaggaggg    4080
aattactagg gaggagagaa agggacaaaa gcacccttgc ttcatactct tgagcacatc    4140
cttaaaatat cagcacaagt tgggggaggc aggcaatgga atataatgga atattcttga    4200
gactgatcac aaaaaaaaaa aaccttttta atatttcttt aa                      4242
```

<210> 2949
<211> 1002
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (12)...(665)
<223> similar to gi4894364 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2949

```
cccacgcgtc cgagagaatt cacactggag agaagccata tgagtgtgag gtttgtcaga     60
aattttttag gcacaagtac cacctcattg cacaccagag agttcacact ggagaaaggc    120
catatgaatg cagtgattgt gggaagtcat ttacccacag ctctacattc cgtgttcata    180
agagagttca cactggtcag aagccttatg agtgcagtga atgtgggaaa tcttttgccg    240
aaagctccag tctcactaaa cacaggagag ttcacactgg agaaaagcct tacgggtgca    300
gtgaatgtga aaaaaaattt aggcaaatct cttcacttcg tcatcatcag agagttcaca    360
aaagaaaggg cttatgagtg cagtgagtcc agtctcatta aatattggag aatacacacc    420
tgagtaagat cctgtgattg cagcaaatgt ggaaatgtt tacccaaagg tctgctctcc    480
ttggatattg gagagttcac actagagaag agtccttaca agtaaaataa atttgggcag    540
ttttgtagcc acacctctgt attccttcag gattatagtt aacactgaat gaaggcctta    600
ctagtgtgac aaatacagga tatttatcca gaagtctggc tgcataactc acaggagagc    660
tgtcatgtgg gaggattgct acatgggagg atttgcttga gccccctggga ggcagaaggt    720
tgcagtgagc cgagattgca acactgccag tcccagtctg ggcccacaga gtgaggaccc    780
tgtttcaaaa ataaaatata taaatgacat ccaataaagt atgcatattt gagctgcagg    840
ataagtcttg aattttcttt ttcttttttt tgggagagcc ctcgctctgt cacccaggct    900
ggagtacagt ggcataatct cgggtcactg caagccctgc ctcctgggtt aatgccattc    960
tcctgcctcg gcctacctaa tagctgggac tacaggcaac ca                     1002
```

<210> 2950
<211> 1887
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1888)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1857)...(591)
<223> similar to gi3327174 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2950
```
tttttttaat ttcctgcaat aagtagtcat ttaattaaag aacaaaatta acaggaatca     60
aaatgttgca gctgtatttt ttgttagaca ttatataaaa aaggaaaagt ataatacagt    120
aaatcatctt gtataacatg aacttaaaga gttttcaaat taattatgat caggataaaa    180
atgtcttttg aacataatac tgaatgacac tgtcacatgt ccctcatgtc agaggcctgg    240
gagtggtgag cctgcacatg cacgttgccc gtcctccatt acactgcaga actgtaaaac    300
aaggttgaaa ggcaaacaac agttttcttc tgatagagtt atgttgggtc ttaactgacc    360
ccaacagttc acactcctca gacaccaaag aaggaaggaa gtgtgtcctc tggttactcc    420
tcttgcaggt aagtgtggtc aagattgcac ctgtgtgtgt gatcctactc ttctcacaaa    480
cacagcaggt agggtagtct tgagctgaac ttcaggaaag ttccctgatg aatgttcagt    540
gttggtatca aaaaattaaa cacaaattct tctcagaaga aaatctctat ggcctgtgga    600
atcttgtcaa gtgcttgctt gatgcatgta cctccatttc attacttttg tactcattta    660
attctttacg aattgctgcc ttatctgctg ctgacagtct cgtccagggt ttgtctgccc    720
tcctgtcata gtcctgcgct tttgctactt ccacgtaatc actgaatcgt atcagaattt    780
ttctgtctct taattcatca acagtgggtc tctgattaag ctttcttgtc aatctttgct    840
tgatttctct tctttcttcc tgctctgtct gatcattcct ttgtttcaag atatttcttc    900
```

1755

```
tctccagctc ttccacggca ggtctttggc tcagccgttt ggaaagcttc atctcgatct    960
gctgccggat ctcctgtctt tcttcatcag tccttctggg gaaaatgttc cggtcttcta   1020
gttcctgttt gcttggccgg ttccttagct tcacggccag gagctccttc ttgcatttcc   1080
gtggcagtgt tccagaaata atggagtcgt tcagcgcctc ctcgtcctga tacaaaagca   1140
agtcgtcttt gagttcagaa tttatgatca ggttctcctt gttctcctca gattccttag   1200
cggcagttcg cttgttctcc aatgccccgt caaagctcca agcctcctcc ctctccttgc   1260
cccgctccac gctggacgtt ctcgacagac ggacatccag ccgcttcttt ggagaccctt   1320
tactttctct tccttgaaaa ctgtcctggc ggtgcttcgt ggccagcgcc ctgtgcagct   1380
cctcaatgac gcggcttggg ggaagaggcc ggtggaccgt ggtgagatgc ggagaccccg   1440
tgggtgtgga gagctggccc cggagggaag ggtcggcact cttcatgctg gaggcttgga   1500
agagtgtggc ttggcctgtg acattttttg tggttttgga gcttgccttg ggtggcggag   1560
tgggcagcag tggggggctg gggagctggc ccacggatct ctccagaggt ctgggaggac   1620
tgtccaggga gtcagcccca gctaaggctt gggagagctc attggtggtg ggcaggaggc   1680
tgccagcgtc tgcttcttca ccactggatg cagaaggcat cttggctgca tcgtccaagt   1740
gggcagctga ggacagtggc ttgtccaggg agacctggtc cgtcccagtg gccaaggggc   1800
ttccgggctg ggcatcttct gaagtcagcg tctccgccgt gggagtgggt gggganttccn   1860
ccgcnctggc gagggtntac ctgtcat                                        1887
```

<210> 2951
<211> 2085
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2086)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (25)...(79)
<223> similar to gi1613858 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 2951
tggcacgagg cctcgtgccg gaaaactgag gcctgggagc aggaacctgt aggcagcgct     60
tgagggtagc gggatagcag ctgcaagcgc gcgtgggagg cggggggctct gggcggaaca    120
aaaatcacag gatgtcagag gatgtttccc gggaagaact gggataaagg aagggtccca    180
gcaccatgga ggacccgaac cctgaagaga acatgaagca gcaggattca cccaaggaga    240
gaagtcccca gagcccagga ggcaacatct gccacctggg ggccccgaag tgcacccgct    300
gcctcatcac cttcgcagat tccaagttcc aggagcgtca catgaagcgg gagcacccag    360
cggacttcgt ggcccagaag ctgcaggggg tcctcttcat ctgcttcacc tgcgcccgct    420
ccttcccctc ctccaaagcc ctaatcaccc accagcgcag ccacggtcca gccgccaagc    480
ccaccctgcc ggttgcaacc actactgccc agcccacctt cccttgtcct gactgtggca    540
agacctttgg gcaggctgtt tctctgaggc ggcaccgcca gatgcatgag gtccgtgccc    600
ctcctggcac cttcgcctgc acagagtgcg gtcaggactt tgctcaggaa gcagggctgc    660
atcaacacta cattcggcat gcccggggggg agctctgagt gcagcttaag cctctccacg    720
gtgacgggtg gctctgtggc tggtaggact cacccatgat atggggtgca ggaactctgg    780
gggccctgaa ggatttgctt ccctcccctg ggaaggcaga gggctcttaa taaagaggac    840
ccagaagatt cttatttaga gcttcagtct ttggagcaca cagggccttc gtgagacagt    900
```

```
gaaatcagat aataatgaga tcttttgtta aaaaaaaaaa atgggaaggg agtgcgggag    960
agaaatggtt tgtgtctccc ttattcccag ttaaatacct agctgcagat tgtgccatca   1020
cccttcattc ttcccagatg gatgccatgg gctatgggag caaattgccc tggacctttg   1080
cctgaatggg ggcaggaaag gtgaggtgtt gctggcctgt aatgccacca ggtgagttcc   1140
agatgtggag caacttgggc ttttggggat ggggcagcaa agttgggagc tggaccccaa   1200
ttgagtgggg gtagcaattg gagtccttgt gtctcttttc cacccccagc catcctcact   1260
tagaggggcc atggcactag atggcactag tcccccgata atttatgtct cgttgaaata   1320
attttgtata tcattctagt cctgaaatat ttttttcata tgtgtaggtg aaatggtatg   1380
aataagctaa caggaatagt atctaaaaac agaaaacatc catattaaaa tgtcgtaaac   1440
cagggagctc tggcttttna gtgggaattt ccagagaaca taagggtgtg ggcaggtggg   1500
ggaactcagg ccagagttgg cctcgctttg tggggaaact ggtttggaat caaacagaga   1560
taccttctgt ttcgggtttt atttggccaa cactgggaga tttcccatta agatcctatt   1620
ttcagctctc ttgaaaggcc caacctaggc tgacattgtc acaggggcag gacagaagtt   1680
acaacaggct ggagggagca gtgggtgtca ccctcaactg gagatgagtc ccaccaggcc   1740
agttttaccc ccttagttac ctgccctgca cctgcagaca atggtcgatg ccttgcatat   1800
aatacttata gactctgttt atgttgaggg atgtttttaa agcccacagg tgaggtggat   1860
gtggaagact gatcactgtc tctgttttta gctaagcaca cagcagctga aaagactgca   1920
.tttcccagat tcctttgcag ctagatgtgg ccttgtgact gatttctggc taaattcctg   1980
ggtagaacag tcaagcttaa gaaagggacg gctgggcaca gtggctcacg cctgtaatcc   2040
cagcactttg tgaggctgag gccggtggat cacctgaggt cagga                   2085
```

<210> 2952
<211> 923
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (56)...(831)
<223> similar to gi206712 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2952
```
gggacgaggg gctttgggag aaaaaaatcc aactggcaaa agagatgcgt tcctcagtgg     60
attccgagat cggccagacg gagatccggg ccatgaaggg cgagatccac aggatgaagg    120
tcaggctcgg gcagctgctg aagcagcagg agaagatgat ccgtgccatg gagttggcgg    180
ttgcccgcag agagaccgtc accacccagg ccgaggggca gcgcaagatg gacaggaagg    240
cgctcacccg caccgacttc caccacaagc agcttgagct gcgccggaaa atcagggacg    300
ttcgcaaggc caccgacgag tgcaccaaaa ccgtcctgga actggaagaa acacaaagaa    360
atgtgagcag ctccctccta gagaagcagg aaaagctgtc ggtgattcag gcagacttcg    420
acacactcga ggccgacctc acccggcttg gggccctcaa acgacagaac ctttcagaga    480
tcgtggccct gcagacacgc cttaagcacc tgcaggctgt gaaggagggg cgctacgtgt    540
tcctgttccg ctccaagcag tccctagtgc tggagcgcca gcgcctggac aagcgactgg    600
ctctcatcgc caccatcctg accgcgtgc gggacgagta ccccccagttc caggaggccc    660
tgcacaaggt cagccagatg atcgccaaca agctcgagtc accagggccc tcctagggag    720
cagcctggac tccgccttgc aaggcctcca ggaagagatc cggaattgtg tttgtcatga    780
gggacttgga atcttttgtgt ttcctaaaaa ccacatgtac cctcagaagg gcatcgttta    840
agagaaataa gccagccca cccataggaa tcttttttagc cactcagcaa tttaataaac    900
caggtaaaat cctaaaaaaa aaa                                            923
```

```
<210> 2953
<211> 989
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (24)...(12)
<223> similar to gi3901268 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


      <400> 2953
gattcgagac tggtagacac tagtccgtgt ggtggaattc ctccactggg aacactcggg      60
ctgccctggc cactctggag cgcgttgcca agatgaaccg ctcggtcatg ccggagggga     120
agctggtgga gcccgtcctg gaaaaaagag gaagatttgc agacctattg gatgctaaat     180
atttacggac cacattacag atctgggtca tatggcttgg aatctctttt gcctactatg     240
gggttatcct ggccagtgct gagctgctgg agcgggactt ggtctgtggt tcaaagtcag     300
actctgcggt ggtggtgact ggggggggact caggggagag ccagagcccc tgctactgcc     360
acatgtttgc accctctgac tatcggacca tgatcatcag caccatcggt gaaattgctt     420
tgaatccttt aaatatactg ggcatcaatt tcctgggaag acggctgagc ctttctatta     480
ccatgggatg cacggcttta ttctgccttc tcctcaacat ttgcacttca agtccggcct     540
gattggcttc ctcttcatgc tgagggctct ggtagctgca aacttcaaca ccgtctacat     600
ttacacagct gaggttctta tgagtgcatc aatactgggg gccctgtgtc tcttctcatc     660
tgtctgtgtt gtatgcgcca tttctgcatt cactctcccc atcgaaacca aggacgggc      720
cctccagcaa attaaatgaa gacctgcaaa gctatgtcta ccagatgaga aaaatgaatt     780
ctatcttcag aactgcggtg cattttttta aaacttggtt ttacttctgt atgctactcg     840
gtaattagta aagtgatttt tttttaaaag gcatatatgg gaatggggta ggtaactgta     900
tattgatctc ttccttgagg aacaatatat aaagtacttt tataaaatat aatttaagct     960
ttcaaagggg tgtgagaggg agatggtgg                                       989


<210> 2954
<211> 1364
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(309)
<223> similar to gi3002527 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



      <400> 2954
tttttttttt ttgagacgga gtctcgctct gtcgcccagg ctggagtgca gtggcgggat      60
```

1758

```
ctcggctcac tgcaagctcc gcctcccggg ttcacgccat tctcctgcct cagcctccca      120
agtagctggg actacaggcg cccgccacta cgcccggcta attttttgta tttttagtag      180
agacggggtt tcaccgtttt agccgggatg gtctcgatct cctgacctcg tgatccgccc      240
gcctcggcct cccaaagtgc tgggattaca ggcgtgagcc accgcgcccg gccaagttat      300
gatttcttac agccacatgg gcgctggtgg gaacaaagca ggcgggtccc acaggagcac      360
ctgccacccg gagggccacc tcctgcagtg tctgtaaccg ccagagctct tactgtgttt      420
cctaagtgct tgttcttata aaaatcaatt aaaacaggaa gaggcagggg gagccgaggg      480
ggtgctgcgc ccagagagag ggtgctaggc tgctggccca gcaaggcctc aaggaaagca      540
ggggtccgcc aggacccctc cttcagacag aggcctcggg cttgggccgt ttcaggatga      600
gacgggagat atgttccagg cctgggcacg ggacaagcag tcccccgaaa atgctgacca      660
gctcccggtc tgcagcgtgg gtgcccaggt gggtggtggg tagacatcct ggggtgccga      720
cggttgactg gttctgggga agggccgcgc agccctgggg gatccctgcc ccaccctgga      780
ctggacagga cttgggaatg ggctggcaaa gccacccctc aacctgatga aaccccttgg      840
agcacccaga ccacatgcct gaggacaggc tcagacccca ggctctgggg gttcccgggg      900
gactaccaga agccccaagt cacccataa aagcctccca agccccagtg gccagactca      960
caccccactt tccagacaga aaccaaggct gggatagctg ctggccacca gcagccgccc      1020
caccccacc tgcaacacca gcccagctca agacaggcct ggggcctcca ccctggcagg      1080
gcccacggag ggcccatgag ccccaacact cttgcctcag ggggcctggg ggtgggagat      1140
gcccccctcct cgtgtgcacg ctcacctgcc cctccctgag cagtgcatca gccagcgcca      1200
ggctggaggt tggaggccgc cacccttta ctggctggct ggcaggcagg aggctgtgct      1260
ggggagatgg gacacagctc cctgcccaag ggccagcatg gctgctggtg ccccaagatt      1320
caggccaggc ctgtcactgg tgtcttcggt ccctctgggg aatt                     1364
```

```
      <400> 2955
aaatttgtat ttcgataacc attagtgcag tgcggtggaa gtcaagatgg cggcgcggac       60
agcgttcggt gctgtgtgcc ggcgcctctg gcagggattg gggaattttt ctgtaaacac      120
ttctaagggc aatacagcca aaaatggtgg cttgcttctc agtaccaata tgaagtgggt      180
acagttttca aacctacacg ttgatgttcc aaaggatttg accaaacctg tggtaacaat      240
ctctgatgaa ccagacatat tatataagcg cctctcggtt ttggtgaaag gtcacgataa      300
ggctgtattg gacagttatg aatattttgc tgtgcttgct gctaaagaac ttggtatctc      360
tattaaagta catgaacctc caaggaaaat agagcgattt actcttctcc aatcagtgca      420
tatttacaag aagcacagag ttcagtatga aatgagaaca ctttacagat gtttagagtt      480
agaacatcta actggaagca cagcagatgt ctacttggaa tatattcagc gaaacttacc      540
tgaagggggtt gccatggaag taacaaagtt ttgtttcttt attttttag acacaattag      600
aacagttacc agaacacatc aaggagccaa tctgggaaac actatcagaa gaaaaagaag      660
aaagcaagtc ataaagcctc agggaggcca tttttgccta aatttgaaat gagggtgggc      720
cagatgagta tgtttaagtg gagagtgctt ccagctgaga tgatttgagt ctgtcctaac      780
tgctccattg agttctcgtg ccctcatcag ctgagggcag ggaatggaac tttaatggaa      840
gaaccacttt tatctattct ttttattcat tgtttcagtt ctgatttcag caaacatgag      900
```

```
caaaccactt tgactgaaag cagaaagagt gaaaattcta ttttgttacg ctactggtgt    960
tcaattatta gtttgtacca tttttaattt atgtcagttg atgcatctga aaataagtgc   1020
ttggagtgtt cgtaccctta ttttttttta agattcctag aaggaatctt tggttaattc   1080
agattgagca gttaaagttt ttgctatttta cctttgtgca ggctggcata tgctaatttg   1140
ggggtggtaa ccaaccgatt ttatctcatg taagcattac attttgaaga ctgaatatac   1200
ttcacagcag atcaaacaca tttatggcat gcactgacct cttcttggag cccagaactt   1260
tatagagttg cctaccaggg ttactgtaat ggaatttatg atcttaagaa attactagtt   1320
gtattattta tcctatgatt cattcattca ataagctttt actgcataaa ctttacatcc   1380
agcactgtag ttaagtaccc aaaattgaat agaaataatg gcttttgaaa attgcacaaa   1440
gcaggccagg cacggtggct cacgcctgta atcccagcac tttgggaggc cgaggcaggc   1500
ggatcacgag gtcaagagat ccagaccatc ctggctaaca cggtgaaacc ccgtctctaa   1560
taaaaataca aaaattagct ggacatggtg gcacgtgcct gtaatcccag ctactcagga   1620
ggctgaggca ggagaatcgc gtgaacccgg gcccggtgga ggctgcagtg agacgagatc   1680
gcgccactgc actccagcct ggcgacagag cgagacaccg tctcaaaaaa aaaa          1734
```


<210> 2956
<211> 1799
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1799)...(1202)
<223> similar to gi3747099 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2956

```
cttagaattt aagcatgaac attacaaaga cttaaggtat gtgataaaaa acctctttcc     60
ttacaggtat tcagatttta tttgtgagcc cctaaacatc aatgtcttaa agggttgaca    120
ttataacaat ggaataactg aaaagcgaag ttttctgaag tcatatgacc ctgctgtgtg    180
cccaagtcac ctattcacat ggctgttcac atcatctgca tgaaaatatt ttcactttct    240
gttaaccata gtgatttaca attctatgac tattaaagtt tattaaacac aagtttagaa    300
agtatcttta acaaaggtgt gtttatttcc atatattgct cattacattt ttcttgccac    360
agttttatct aaagccaggt caaaatcttt ctctaaggta tttattaata gtgtatgttc    420
ttcagatata aaatccctct ggtcaacatg caacatttga atatctattg gcactgtacc    480
tctatgagat atttatgaca tttgttaata gtgaacctca acctcctgac cgcacatccg    540
aagttggggg cgatgtgggg gaacatacac aaaattacaa ccacattact ggtcaagcac    600
tttatagcta aaatctattg actttaaaat agcattgtat gtgaattcag agttttaatg    660
tattttgtgg atcaaaagga aagggtcaaa ggctaagctg aacacggagg gcactaaatt    720
agctaataag gcagctagtg cccctgttct tgccccagcc ctgtcatatc actacatccg    780
attctctcaa atgttataaa gaataatgaa cttaaaactt caggggttcc tgaaaactgg    840
tattaaatta aaagcagagt agtcaaaatt ctttgcaaat gacttctgtg atagaaaaaa    900
atatttccaa cctgcgtcag aggagaatta tctttaggt gccaaggaaa gagtgataaa    960
gatgctgagt atattagtca aggtcatctg agaagactat tttgtggttg attcttctga   1020
gcccctgaat tgtccaacat tattggtgta cctgtagcgt gaacaacatt gcaaccaata   1080
attttttgaa tacagcaatg taaaaccctc aactttaatg ttcctcagat cgtaacaaat   1140
cagctcagct acaagtcttc cccaaagtgg agctattcta gtcatatatt tacttagttt   1200
caaagagcag gaatcctgca aaggtggaga agcgttggtg gtccccatgg agagcgccat   1260
tgcccattcg cagccaaacc tcatcccctt tggctagctt cagcacagca tgattgctgg   1320
atgtatctga tttgcccttc atttcatagc tgtacatgct gaagactgtg ttgccattgt   1380
```

```
gcataaggta cacatacact tcctcaacat cctcatgctt catcatgctg aaggtgaaga    1440
aatacacacc tgatactggg gccccaaatc taccagtcat gacatcaaag aagtttccaa    1500
tgttggtctc aacactgctg aagataatcc cactgttctg attgctgaag tgggttgcca    1560
gagaagccat gaatgcaatc tgtaatccca gctactccag aggttgaggc aagagaatcg    1620
cttgaacctt ggtggaggct gcagtgagcc aagatcacac cactgcactc cagcctgaag    1680
ttctggtgga atccccgggt agcccttctc tcctttgggg ccatgctgcc cccgctcccc    1740
tcgaggcccc aggtcacctt tgtcgccctt ctcacctttg gctccttcat gaccagtgg     1799
```

```
        <210> 2957
        <211> 1798
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1799)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (2)...(1310)
        <223> similar to gi1894791 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2957
agccatcgta aaaccacaac cagctgtaca tcaacatagc tcaagttcat cagtttcctc    60
tgggcatttg ggagccctca accattcccc tcaatcactt tttgttccta ctcaagtacc   120
tactaaagat gatgatgaat tctgcaacat ttggcagtcc ttacagggat ctggaaagat   180
gcaatacttt cagccaacta tacaagagaa gggtgcagtt ctacctcaag aaataagcca   240
agtaaatcaa catcataaat ctggctttaa tgacaacagt gttaaatatc agcaaagaaa   300
acatgaccct cacagaaaat ttaaagaaga gtgtaagagt cctaaagctg agtgttggtc   360
ccaaaaaatg tccaataagc agcctaactc tggaattgag aacttttag catctttgaa    420
tatctccaaa gaaaatgaag tacagtcatc tcatcatggg gagcctccaa gtgaagagca    480
tttgtcacca cagtcatttg ccatgaagag atgaatatgg attaccctct cagcctaaac   540
aaaataagaa attagcatct tatatgaaca agcctacag tgctaatgag taccataatg    600
ttcagtctat ggacaatatg tgttggcctg cccccagcca gatccctcct gtatccacac   660
cagtaactga actttctcga atttgttccc ttgttggaat gccacaacct gatttctcct   720
ttcttaggat gccacagggc tccttaggca tgaatttccc tttgccttca caagtatttg   780
caaattatcc ttcagctgta ccacctggaa ccattcctcc agcctttccc ccacctactg   840
ctaatataat gccttcgtcg tctcatctct ttggctcaat gccatgggga ccatcggtgc   900
cagttcctgg gaagcccttc catcatactt tatattctgg gaccatgccc atggctgggg   960
gaataccagg gggtgtgcac aatcagttta tacctctgca ggttactaaa aaaagggttg  1020
caaacaaaaa gaactttgag aataaggaag cccagagttc tcaagccact ccagttcaga  1080
ctagccagcc agattcttcc aacattgtca aagtaagtcc acgggagagc tcatcagctt  1140
ctttggaagt cctctccgat ttgctcaacc tgcatcttct tttttcaagtt ggaaactggc  1200
ctcttcaagg ccattagtat atctcaccat aagtcaacac caatctcttc ttcaagaaga  1260
aaatcaagaa aactggctgt taattttggt gtttctaaac cttctgagta aatttggccc  1320
cttagaatta agttaatttc ttctctttcc atctaccttt ttataaatac atatctatgt  1380
ctcataaaaa ttagaatgta ctattttaaa ataatatgtg taaattgaaa ttttttttcat  1440
ttttaagtta tcaggcactt ttcatgctgt ttaaaagact gtgtatcaaa ttgtgcactt  1500
```

```
taagtatgtg cagtttgttg tatgtcaatt atacctcaat aaatctaata aaaaactaaa   1560
ttaaaccttg cattaaaata atatcacagt atcagtggac taaacattaa aatgtaccac   1620
tctaatcatt ggcctcatga ttgaagcatc ctgaactatg aattagacat cagttagcaa   1680
taataagcat ttttttnacta tcattgagga ataattcatg gagcatgaaa tttgggcctc   1740
cggtatactt ctgaatgtgg atttatnctc tttttaatga tgtagaaaat gnaggaga     1798
```

<210> 2958
<211> 4138
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3756)...(2555)
<223> similar to gi2739386 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2958
```
tttttttttt ttggaatttt taatttattt atcatgtttg taagttacag acatttatgt     60
tttcagcaac agtttataat agttacatct catacttcaa ctattagaac agagagaaca    120
ttaaagtaca aagaaagact tcaaaaatga ggttactgtg atgtatcata aaaggagtta    180
aaattcaaaa tatcaaagac ctcacctatc ggactaaaca taaatcttaa aacctcctat    240
ggtcctctga gcctaaaatt acaaaactta gcaactgctt aaaccaagga attaacggtt    300
ctgtgttttc aaggtaagaa aacaaaaaat gctttggtaa actaccttta atactagttt    360
aaatgtttct gccttgtttg tatctctctt gaaagactgt atataagtac aggcacagca    420
tatatttgag aaaacatctc acaaatttca tttactatag gtttctcaat aatctttaca    480
tttaatcaat gagaaaagtg attcagtctc ttgaatttta agttaaaaaa attaaaaagt    540
atttccaggg actcttaaag ctctctccca aagtataaaa tattatgtac tttcaaaatc    600
ttaagcattc acgttctttc tgagaccaac gcaggataca aacttactct caacatagat    660
gcttatgtgc ttttgggcac acatagtctt tcttagaaca gtggtcaaac agctcacagg    720
accctgtact cctcttcatc ctggactgtg atggtggcca cagccagacc agccccctcc    780
catctgcctt ccaggtcaga ttccctggca tttattaagc tgtcactctt caatgggttc    840
ttccttgggg gactcaagct cattcaataa gtctttgcca gctgctccgg cttttgaagc    900
aaagagaact gctccctgct taaaaccgag gttcttcaaa ctccgggcat aatctgcata    960
tatagcagtg atgagtttct ctgtgtcctc agtgacttca aatgctccat acttgaggca   1020
agcttccaca aataaggctg ctctatcaaa gtatctcatg ctgtgaagcg tctctgccac   1080
gctaaaaaag cagcccagag agaggagaac caggagagcc tttgatttct gattgacttg   1140
tggagaacaa aggtggtcaa cccaccgcct taaaacatcg gcacactcct caggattcaa   1200
acggactttt gccagccatg cagcccgatt ccactcgccg tatgtctgca ggtagcggca   1260
ggcgtctgca gccttatcta tcaggcagag caactgaacg ccctctgcca atttgccatt   1320
ggcaatcata ttcgttgcca ccaacttaat ggtgctctga gaggggcctg acgaggtgac   1380
agtagtgact aaacaggctt tcagtgaatc acagtaataa tgctggttat ctgcacttgt   1440
ttccaacagc aactgcacag ctctgtctgt ttgacccaag agcagtagct ggtctgtaca   1500
tttccttgta tgatcataag ttgaccgttt cacttcctgc agattaaccc tttctagctg   1560
aaatttctga aagtaggcat tttcacagag cacgtcatag catatatcca gtgggttgct   1620
cagtttgtct cgaggagcag cttctttagg agctgttgtg ctggctgact tttcctggga   1680
taagctgtgc aggtagtggg cagcgacagt ccagaagtgc agctccgatt catcaccata   1740
gagccttgaa acaagcaggc acctctgcaa gagagtgaat tctggatcaa gcaacagttt   1800
ctttatgtca ttagacaatg aattcaactg ttcttggagg agattctta tttcttcatt    1860
ttctggatag tcaacatgag aaatgtccaa agaatactgt ccattccaag gctggtgtaa   1920
```

```
taagaaggct ttcaaggcaa gagaggccct tggaacaagg agatagggc accacacagg    1980
ctcggttaac tcttgttcat ccattctaaa gcacgcagac ttcatagaca tctctaggac    2040
tctgatgcac ccatcatctg aggccaagat cactttatct gacgtacacc agtccacatc    2100
caatatacga aaggtcacat ttctgccact tcttaaactg ctcaccatct gaacctcttt    2160
agtatcccac acttcagctc catcattgta cattgctatt aattttgat ttcctttacc     2220
aggagcaaaa cgaatcttcc tcacccaact tcggtgtgtg ggtattcctc tggatactct    2280
gcctttcaag tcccagaaat ttaaatttcc atccatatct ccaagcacta atgtatcacc     2340
tttccaagcg atgcaggtaa tactacccat acttccatct ggtggaatcc gagcactgtc    2400
ttttactgag tttccttcaa cagtgagatg atacacttgg ccatcaatat cggtaaatac    2460
aaaatgttcc cgggcagaga tgttctgact aagttcagat ttactttctg cctcctgcag    2520
caagctgatc acagatgatt caacaatact cagctctgtg tctgagacta cggtctggcg    2580
ggccatggcc tctcgagttg caagttgctt ctttctcagg ctcttcaagt tgtgagatgg    2640
tgaccactcc aaagcagtta ttgtagggaa gttttggac atctctctaa gaagggtaca     2700
agtcctaaca tcccatagct ccaggggttt atctctgaat acgactgcca aatactgctt    2760
caaatgagat actttaatca tttcgatggc agattcatca ttgcctcttt caccacgaaa    2820
agcaatgctc ctacctgttg gaagatcaac cagttgaagt tcatttctca ctaatcccat     2880
attgtttggt gttgaggtag caaaagaaag aaaactagtc aaacttgtcc attcaatacc     2940
cttgacttca catgagtgga tgcttaactc tttgtgtagc agaccactgg tgagatggta    3000
caccaggaca gaaccattac ttgtaccaac agccagcagt ggctgataca tcttgatgtt    3060
ttttgtggtc aacggtggac acatacgaat agcaaactgt ggtgcgggca gtcctgaaag    3120
cagtcccgtc agcaggaact tgaggtgcac ttcccgcaga attgaacctc tgggatgttc    3180
ttccccagca attgcacttt gcccaatcat gttatctaag gaaaggtctg ggagtttatt    3240
ctgtagcact cctacaggaa ttccacagaa agacactggt gaatataaag gtgacacacc    3300
agaactactg ttccgtgaat ttcgattaca aactgcagac ttgagttccc atatcatgac    3360
cctgccatca ctcactacga gggcggctgc attctcattg acaggacagc acaccatact    3420
gaagggacgg acggttttg tcaccctgat tgcatcacac tggcttcgta aatcataggt     3480
aagctcctga actggatctg gatctggttc ctcatttgaa gtggtaaaaa tgttattata    3540
agatcttcga acacgtaaag ttatacaacc attttcatgt agacaaaata aaccatcacg    3600
ctgaaagcag ggtattacct gtaaaaatgg aactcctgtg cgttctattg caatcacacc    3660
caccgtctga ttcacctcaa ggtcaaggat taaaatctct cgaggataga gcaacaacat    3720
gtgattcctt tttgaaggca ggtatgccaa ctgaaggcaa tcattgagag ttatgaattc    3780
agcactaggt ttctcttgag tgattaaaat ttttacttta tttagagctt tcttggcacc    3840
tgtggctgtg gccagcttgt tatgagctgg gctagagtgt gggctggata tgtaaacttt    3900
tttcccaggg cctgagggag gcttggatgg ggagaagtct gagatgaaaa caataccctc    3960
gctggtaagc actatattga gaaaagcaaa actctgatta aagtttaatg aagtttagca    4020
tacagttta ttccaataca attttgagag caatatagtg ataattttaa taatatataa     4080
ctggcaatgt tatgcattca taacataatg ggaatgttct ctaagttgaa gagaaaca      4138
```

<210> 2959
<211> 1413
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (99)...(1047)
<223> similar to gi4587572 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2959

```
agctgtagtg ggtgctgttc ttccatgcat aagttcgcca tactaactgg ggtgtagata      60
tgtacctctt ttctctaggc tcagagtccc ccaaaggggc cattggccac attgtctcta     120
ctgagaagac cattctggct gtagagagga acaaagtgct gctgcctcct ctctggaaca     180
ggaccttcag ctggggcttt gatgacttca gctgctgctt ggggagctac ggctccgaca     240
aggtcctgat gacattcgag aacctggctg cctggggccg ctgtctgtgc gccgtgtgcc     300
catccccaac aacgattgtc acctctggga ccagcactgt ggtgtgtgtg tgggagctca     360
gcatgaccaa aggccgcccg aggggcttgc gcctccggca ggccttgtat ggacacacac     420
aggctgtcac gtgcctggca gcgtcagtca ccttcagcct cctggtgagc ggctcccagg     480
actgcacctg tatcctgtgg gatctggacc acctcaccca cgtgacccgc ctgcccgccc     540
atcgggaagg catctcagcc atcaccatca gtgacgtctc aggcaccatt gtctcctgtg     600
cgggagcaca cttgtccctg tggaatgtca atggacagcc cctggccagc atcaccacag     660
cctggggccc agaaggagcc ataacctgct gctgcctgat ggagggccca gcatgggaca     720
caagccagat catcatcacc gggagtcaag acggcatggt ccgggtttgg aagactgagg     780
atgtgaagat gtctgttcct ggacggccag caggagagga gcccctggct cagcctccaa     840
gcccaagagg ccacaagtgg gagaagaacc tggccttgag tcgagagctg gacgttagca     900
ttgctttgac agggaagccc agcaaaacca gccccgcagt gactgctctg gccgtgtcca     960
gaaaccacac caaactcctg gttggtgatg agagggggag aatattctgc tggtctgcag    1020
atgggtagga agagagaggc agcagaggct ctggcacaac agtgccaggc tgagggtggc    1080
agaggtgact ggggcctgag ctctgcctac agaaaaaacc cccagggcct ccttccccac    1140
agttctcaag gaagggcctc tggcaatcac agctctgcag cccaaccctc tccatggccg    1200
atgggacttc tatgaaaagg atgagcacac acactcggag ggctgagcag cacgctggaa    1260
actgtgactt ggtgatgccc agctgcacac gaaattacac atgactcacc ttattaaggg    1320
ctattgcact gaaaaaaaaa aaaaggggc ccctaacggg aaattattgt attgtcttta    1380
ttttattaaa gcacctatgt tttaaaaaaa aaa                                1413
```

<210> 2960
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(793)
<223> similar to gi203654 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
    <400> 2960
catggcattc ctttggcttg tgtgctgctt tgcccttgtg ggcgccacct ttggctgtgg      60
ggtccctgcc atccaacccg tgctgaccgg tctgtccagg atcgtcaacg gagaggatgc     120
tatccctggc tcctggccct ggcaggtgtc cctgcaggac agaactggct tccatttctg     180
cggggggctcc ctcatcagcg aaaactgggt ggtcactgct gcccactgcg gggtcaagac     240
aaccgatgtg gtggtagctg gagagtttga tcagggctcc gatgaagaga atgtccaggt     300
cctgaaaatc gctcaggttt ttaagaaccc caagttcaac tccttcaccg tgcgtaatga     360
catcaccctg ctgaagctgg ccactcctgc ccagttctct gagactgtgt ctgccgtgtg     420
tctgcccact gttgacgatg acttccctgc tgggacactg tgtgccacca ctggctgggg     480
caagaccaaa tacaatgccc tcaagacccc ttgacaaagc ttcagcaggc tgccctgccc     540
atcgtgtccg aggctaagtg caaggagtcc tggggttcca agatcaccga tgtgatgatc     600
tgcgcagcgc ccagtggcgt ctattcctgc atgggtgact ctggtggccc cctcgtctgc     660
cagaaggacg gagtctggac cctggcaggc attgtgtcct ggggcagtgg tttctgctcc     720
acttccaccc ctgccgtgta tgccctcctc actgccctca tgccatgggt tcaggagatc     780
```

```
ttggaagcca actaagtaca cggtccttac ctcttccata ttactccccc gccgtgcatc    840
```

<210> 2961
<211> 1372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1371)...(1149)
<223> similar to gi3002527 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
    <400> 2961
gtcacgtatg ttttaaatat tcaaaagttt ctgtcagaaa acagtatttt ggaattaaat     60
ttctagaatc tttcataata ttctctcctc tctactgaac atagtactag gttggtaact    120
ggaggatccc agaaagtcat gctaattttt ctaacaaaac aggccttgct gtctctaact    180
ctgatctgat atcctgcttt gagcaaataa aagagccctg gaatgtgaag agacatgaga    240
cagtagtcag cttctcaggt aggtaagcat gaatgaagca gataacagag acgagggata    300
cgaaggtcag aaagaatttc agaccttaaa atgtggtata gaatgctctg cttccatgga    360
aaggtttcct aaaaagccat ttatttctct agctcccaaa taggagcatc ttttgtccca    420
tacccttaaa ttctttaagg atcctacttc ctatttagtg attttcctta gagggtaccg    480
tgagagctaa agtcctcttt atggcttata aggtgctgca tgatatgcct gctcttccat    540
tgttttgggg gagtataaga atatttctga gtattttaga ggaactgcat gttagatcat    600
ttaacgtttc ttttcccatc atgtctgaaa tgtgtaagag gagtggtgat attaagattt    660
gtttcagaaa tcacaggaac atgaatgaca gatgttactt ctctattttt ttttaatatt    720
agcaatccta acagatttcg agtgatagct catcattgtt ttcatttgca gttgcctttt    780
ggtaggtgat attgagcact tttttatata tctattgggc atttgtatat atttgttggc    840
aaaatatttt tttcactctt tcaaccattt tttagttgga ttattattgt tattattata    900
cttgcttttg ctttgaattt tctatatatt ttgaatatta agcttttctg atatatacag    960
tttgctgttg tgagcatgct gcaataaatg tgcaagtata cgtatcattt tcatataata   1020
aactattttt ctttggggta gataccccaa tgatgagatt tcctgaatca aatgatagtt   1080
ctggcccagg cgtggtagct cacgcctgta atccccaaca ctttgggagg tagaggcggg   1140
caggtcatga ggtcagaagt ttgagaccag cctgagcgat atggtgaaac cccgtctcta   1200
ctgaaaatac aaaagttagc caggcgtggt ggcagcttgc ctgcagcccc agctcctcag   1260
gaggctgaca cagaagaatt gcttggacct gggagtcagt ggttgcagtg agctgagatc   1320
gtaccactgc actccagcct gggacaacta agactccgtc tcaaaaaaaa aa            1372
```

<210> 2962
<211> 1529
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1530)...(133)

```
<400> 2962
tttttttttt ttaataaagt cggctgccat cctctccccc ggctcaggtc aaagttcata      60
ggcagcaatg cacaaagtcc tctgtgaagc cagtgttctc tgctccccgg gtcagaggtc     120
acaggtcaag ttcagtcagt ccgaagaatc atgggcgggt gctcgctgtc ctcatccagg     180
gcgcagggcg tgggccttcg gtcctccagg gcaggcgcca cccacagcac ccagggtcgt     240
ctcgtgtagg gcaagtctcc gttggggatg aaggcacgta agtacctttt cctgcaagct     300
gcgcccgtaa tgtctgaggt gactaagggg gcaattcgtg agaaggcaga gttcccaaga     360
ttctcattgg gtcgttttcc aagactgccg ttccagccgg tgctgcttca ttcaggggca     420
cactcgccgc cctccttggg ggtccaggtt gtacatgtac aggtacccgt cggcggcacc     480
caccaacaac cgcgggatct tctgaattgt ggctagcgag cagatgtttt tgtggccgca     540
gaatggcagg cggaccgtgg cgaaggctct gccctggttg aacatttctg tcacttggga     600
aggcaggtag ctggtggagg cccatgagca ctttcccgaa gtacccggtc caggtggtgg     660
gctcctctgg gggttttttct ttcacagtct cgagtttgaa gatgtgcacg gtctcagtgt     720
tgctggaggc ggagaggaac atgccgtcca tgctgaaggc cagggagcag atgctcacgc     780
acctctttac tcctctccga aactcaaaga gtttttgtc cttctggaat ggaaaatacc     840
ctaatcacgg tccccttctc cgaagccgtg gcaagtttag ttccacttgc gtcaaaggcc     900
agtgccgctt aaaggactgt cgtgagccgg aatcatgttt gcagctctca aattaaaggg     960
tatcgaagac ctggcaaacc ctctccgatg gtcgcgctcc ctgggtacgc caagtagcag    1020
ttgtcgttgt tgattgacag cgcacacagg cctgcagggt ttggaggcgt ctccctgatc    1080
gtatgcagca ccttcatgtc ccgaatgttg tggatgtaca gggactcctc caggcatact    1140
atcagcctct gcctgttgag cttcacagcc agaatcgtgt tggagtagct gtagttgcag    1200
atctcagttc ccttcttaaa gtggcaaacc tttagcttcc ttggtgcttt aaggctcacg    1260
atggccacta ggctgctgga gaacaatctc tctacaatgc acacatcttc cgtatcggtg    1320
cattcataga tctgttccag cttatccaca gaagaaaggg agaaaaattt ataaccggac    1380
ttactaccaa cagctaggga ccagacaaca gcgcgacggc caagaccagc tgctcttgat    1440
gccccttca cttctgtgtt gtcctggttg aagttggcga agagcagctg gccggcgccg    1500
gcctccccgc tctggctcgc caggttcat                                       1529
```

<210> 2963
<211> 1219
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1220)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1219)...(468)

<400> 2963

```
tgggcccccc gagggatcct ttaaaacggc cccccctttt tttttttttt cagagtttca      60
aaatattctc atctgttaaa ttaagagtgt ctcccataga aaagcagtgg aggcccccaca    120
gggcaagtac aaaacagaat taaaactccc aagggtcttg tctttacaaa agaaaaggca     180
ggaggcagcc cctggacagc tggtcatgct ggccgctccg gttggaccac gttgcataat    240
cctcagtcgc atcatcacaa cgtctctgag cgttttgatg gggggagaag gggcagtgta    300
gtgtgtatgg gaggagaggc ccagagggct ctctttgccc ccttacccccc tttttatat    360
cccagaggaa agtcgggggga acctggctac accttgaaat gaggctatgt gtttcaaacc    420
tggggacggg gtaagagagg atctgtgctt tgagcaacct gagccagagg cagaggggtg    480
ttggaggggt aaggggagga tgcatgatgc ttattgcttt gtacctttca ctgggaagga    540
gggcagcagc caacagtagc tcacaggttt gtaaactgag cctgttggct ttaagaaggg    600
aggcaatgaa atcgaattaa atataaaaga gtcatttgtg caaaaataac ttaaacaaat    660
aaaagacctg gggaagggggg tgttccccctt agcgcctggt ggggaaaggg ccatataccA   720
tccccccccag gcctttttcag tgacatggct tcggggggggc ggggggggtgg tgggggggggg 780
tgaaacttcc ctgcccctg caatggctca ggatgggatt gtaggggaag gagttgcatt    840
tgtgctctga gtggggagta gtgcccccac ccactgtcca caggtgcagg tggctggcag    900
gggctcccaa ggctcagcac tcagctctcc ccaatcaggg tcagatccag ctccaggtat    960
ggctgctatg gggccagttt cctcctcttg ttttttggcag gacggccagg gcgggcccgg  1020
ggaggcagag ggacagctgc tcgggctgta gggctgggtt ccaaggtaat gtcctggcgg   1080
gagctattgc tgttccgggt agggttgtat tttctcctac gaccacgacg aaaaattctg   1140
tctactcccg ggggcacctt aaggtcctca gaatgggggcc cgggagggggg gnnttagcgc  1200
                                                                   1219
catcaaatag ggtctcagt
```

<210> 2964
<211> 2609
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (57)...(715)
<223> similar to gi4007778 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2964

```
tcgcagattt ccagaatgaa agtgcagcag ccctggctgc tgcagccact cgacatttac      60
aagaagctga gcaaaccaaa aacagtggca ctgagcactg gtggaagatc catgaggcat    120
gcatgcttgc cctaggctca gtgaaggcca tcatcactga cagtgtgaaa aatggcagga    180
ttcattttga catgcatggg ttcctgacca atgtcatcct tgcagacctc aacctctcag    240
tgtctccttt cctcttgggc cgggcacttt gggctgccag tcggttcact gttgctatgt    300
cccctgaact gatccagcag ttcctacagg caacagttag tggtcttcac gagacacagc    360
ccccatcagt tcgaatttct gcagtgagag ccatctgggg ttattgtgac caactgaaag   420
tctcagagag tacccacgtg ctccagccct tcctccccag catccttgat ggcttaattc    480
acctagcagc ccagttcagc tcagaggtcc tcaacctggt gatggagacc ctgtgcatcg    540
tttgtacagt agaccccgaa ttcacagcaa gcatggaaag caaaatctgc cccttcacca    600
tcgccatttt cctaaagtac agtaatgatc ccgtcgtcgc ctcactggct caggacatct    660
tcaaggagct gtcccagatt gaagcctgtc agggcccaat gcaaatgagg ctgattccca    720
ctctggtcag cataatgcag gccccagcag acaagattcc tgcagggctt tgtgcgacag    780
ccattgatat cctgacaaca gtagtacgaa atacaaagcc tccccttttcc cagcttctca    840
tctgccaagc tttccctgct gtggcacagt gtacccttca cacagatgac aatgccacca   900
```

```
tgcagaatgg cggagagtgc ttgcgggcct atgtgtcagt gaccctggaa caagtagccc      960
agtggcatga tgagcagggc cacaatggac tgtggtatgt gatgcaagtg gtgagccagc     1020
tcctggaccc ccgcacctca gagttcactg cggcctttgt gggccgcctt gtttccaccc     1080
tcatctccaa ggcagggcgg gaactcgggg agaatctaga ccagattctt cgtgccatcc     1140
tcagtaagat gcagcaggca gagacgctca gtgtcatgca gtccctgatc atggtgttcg     1200
ctcatctggt gcacactcag ctagaacctc tcttggagtt cctgtgtagc ctcccaggac     1260
ctactggcaa acctgctcta gagtttgtga tggctgagtg gacaagccga cagcacctgt     1320
tctatggaca gtatgaaggc aaagtcagct ctgtggcact ctgtaagctg ctccagcatg     1380
gcatcaatgc agatgacaaa cggctacagg atatccgtgt gaagggagag gagatctaca     1440
gcatggatga gggcatccgc acccgctcta agtcagccaa aaacccagaa cgctggacaa     1500
acattccttt gctggtcaag atcctaaagc tgatcatcaa cgagctctcc aacgtcatgg     1560
aggctaatgc cgctcgccag gccactcctg cagagtggag tcaagatgac tccaatgata     1620
tgtgggagga ccaggaggag gaagaggagg aggaggagga tggtttagct ggccaacttt     1680
tatctgacat tcttgctaca agtaaatatg aggaggatta ctacgaggat gatgaggaag     1740
atgaccctga tgccctgaag gatcctctct atcagattga tctgcaggca tatctcacag     1800
atttcctctg ccagtttgct cagcagccct gctacataat gttttcaggc caccttaatg     1860
acaatgagag gcgagttcta cagaccatcg gcatctaaaa aggggagcct ttctacattt     1920
gctccttctg ggccagccgc aaaccatttt gcagccctca ctggccttga gatgcacttt     1980
cttctcaacc taaagtggca tcttgaccct tgggcccttg gcctcggcag tgacactgat     2040
gacaattcag accaggctca ccggtgccgt cacttaggaa tgctggaaca aaggacattt     2100
ctcaaagttc ccctgaagac atgccatctc tagaaccttt tttctccccg actctacccc     2160
cacctctgtt cctagagccc tctgctggcg agtccagaaa cattattgcc cagaaggatt     2220
atgtgtttat ggattatttt gccccgcctc aggagcgcag gaagtcacta ccatttatat     2280
tctaaaacag acctatctat gttcatagga cttctgatgt gttcagatag gaatcctcat     2340
gagagatcat tatgctttgt gccctggacc actgctgctc tgggttctca ggaggaacag     2400
gcaagagcag cttcattcta agcctttcca gtgacctcag ccttgcttct cttctacaac     2460
actaaggctc ctctgtcaga ggaggtcgtc ttgttttttgc ttcattgcat gacataaccc     2520
ttcccctcaa gctgttccta tatatacatg cacacacaaa ataagccaga cagatggcaa     2580
                                                                      2609
tttgatcttc ctttttttaga aaaaaaaaa
```

```
          <400> 2965
acctcccgct cctatttcac cgtcccgatc ccatccgccc ccaccccggg acccgcgccc      60
cagggcggcc ttcccatgca tcgcccctcc cccgttccct cctgtcccca ccccatgtct     120
gcccaggacc cagccctgcc ctgtccccca ttgtccctgg gggcgggtcc cagcctcttc     180
cggagctgaa ctcggcccct gcgcgctgcc ccctcctctc tccgcagtac tcgccaggga     240
tgaccatgag cgtgtgatgg ggcggcagcc ccgggcctct ctgcgggcct aggcttctgc     300
ccagcgcccc tgctcagggc gaggggctga ggtcacacct cgggcacctg gactcctggc     360
caatcaaggc ttgcccagct gggaggcccc acacgaaaga ctcttaccat tttattaaaa     420
acgcaaggac ctcagagacg ttcttttctg tatggaccct tcctgccatt tgtatttttgt     480
```

```
cccagagaga aaggctcttt ggggggcccc tctccccagg acgtcagggg gtggggccca    540
taaataaatg gaagctggtt ttggtttttg gtagcttgtc tcagattccc tctttggcct    600
tctgccacca cactctccac cctgtggtct ttgttccgtc ccggccccca tctagcccca    660
cctttgagaa ctggggggcag agcgaggctc caggttctgg gcttctcccc tgggaagttg    720
gggtgaatga ccatgggcag aggggatggg actgaaaact gggcgctcaa gagtcgggga   .780
agtagaggga ggcagagtca ggtcacaggc cccaagaacc ccaggtggaa ggagggctga    840
agtggcagcg ccctttattt gtgggggcct tcaaggtagg gtcgtggggg gcagcgggga    900
ggaagagccg agaaactgtg tgaccggggc ctcaggtggt gggcattggg ggctcctctt    960
gcagatgccc attggcatca ccggtgcagc catttgtggc agcgggtacc ggtcctttct   1020
tgttcaacat agggtaggtg gcagccacgg gtccaactcg cttgaggctg ggccctgggc   1080
gctccatttt gtgttccagg agcatgtggt tctgtggcgg gagccccacg caggccctga   1140
ggatgttctc gatgcagctg cgctggcgga aaagcgcatt gaccaccggg ctgccgggcg   1200
gcactagtgg cgccttgaag aggaagctga gcagggacag cacggggtgg aaggtctgcg   1260
gctcggggtc catgtcagtg cagaagctca cgcgctggca cagctcggtc agcagcgcta   1320
ggtccagcat gatgggtgcg gccagcagcg agtcctcaca cgtgttgtgc agcaccagtg   1380
tgttggttcc gcccagcatc agctccgagg tatactcatc cagcgcgcgc ttgctgtcac   1440
ccacgtacgg cacatacttg atgaccacgc agtggtcagg ctcttcgccg ggcgtataga   1500
gcactgggtt gctctgcacc atgtcgtcca ccacgttgct cttggacacc tccttagagc   1560
ggaactgcaa tggcgccgat aggttctccc catcgttgtt gcccaggtgg ttgtaactca   1620
cgatggacat ggtcttgagg ccggagccaa tgaggaagtc cacaagcacg gacttgactt   1680
tggtctggcc tgacttgaag tcatctccgc ccacaaaaac ccggtgctgc cacgcgagct   1740
caagagctcc gggcaccagg gtgttctgcg gagacccatt gaggaaggca cagccctcca   1800
ggatgctggc cacggcgaag agcgtggagg gcgacacctc cagaccgagc tcaatggtgc   1860.
gcagcaggtt ctcggctgtg tcgttgaggc ctggaatcac ctcacagaag cgctccgtgt   1920
tcgccgtcca cagcactatg actttgtcca gccccgcgct agaccggaag tctcggatgt   1980
ccctgcggat ctgctccagc tgctgcgcac gcgagcctgg gatgaggttg tccgcgcgcg   2040
cgctctggtt ggccgcgatg aattcggggga tgtaaacaga aggccggggc cgcagggcct   2100
ccatgtgcgg ccacagttgc tcctgcagcc cccagtccag caccttcgcg cgccgcatcg   2160
cctcggccag gttcagcgac gagatgtccc agccatcgaa cacgaggtcg ttgggcgcca   2220
ccatgggcag caccgcgctg aagggtacga acacctcctg gccctcggcg tccaggccca   2280
ggctcacggt gcccgcctga gtcagcgaac cgttagtagt tggcctcctt gcggccgc      2338
```

```
<400> 2966
tgcagcgggc gtgagttggg ggaggacggg ttgccgactc gcctacctag cggtctcttg     60
attgtcgata ttttgttggc ataggtttat gtagagacgt atacatatat atagacacac    120
tgtctttaaa tctaggcctg tatccggtgt ccgaggcgaa ctcagtaaga tgatgttaag    180
aggaaacctg aagcaagtgc gcattgagaa aaacccggcc cgccttcgcg ccctggagtc    240
cgcggtgggc gagagcgagc cggcggccgc ggcagccatg gcgctcgctc ttgccggggga  · 300
gccggcaccg cccgcgcccg cgcctccaga ggaccacccg gacgaggaga tggggttcac    360
```

```
tatcgacatc aagagtttcc tcaagccggg cgagaagacg tacacgcagc gctgccgcct    420
cttcgtggga aatctgccca ccgacatcac ggaggaggac ttcaagaggc tcttcgaacg    480
ctatggcgag cccagcgaag tcttcatcaa ccgggaccgt ggcttcggct tcatccgctt    540
ggaatccaga accctggctg aaattgcaaa agcagagctg gacggcacca ttctcaagag    600
cagacctcta cggattcgct cgctacaca tggagcagcc ttgactgtca agaacctttc    660
tccagttgtt tccaatgagc tgctagagca agcattttct cagtttggtc cagtagagaa    720
agctgttgtg gttgtggatg atcgcggtag agctacagga aaaggttttg tagagtttgc    780
agcaaaacct cctgcacgaa aggctctgga aagatgtggt gatggggcat tcttgctaac    840
aacgacccct cgtccagtca ttgtggaacc catggagcag tttgatgatg aagatggctt    900
gccagagaag ctgatgcaga aaactcaaca atatcataag gaaagagaac aaccaccacg    960
ttttgctcaa cctgggacat ttgaatttga gtatgcatct cgatggaagg ctcttgatga   1020
aatggaaaag cagcagcgtg agcaggttga tagaaacatc agagaagcca aagagaaact   1080
ggaggcagaa atggaagcag ctaggcatga acaccaatta atgctaatga ggcaagatct   1140
aatgaggcgt caagaagaac tcagacgctt ggaagaactc agaaaccaag agttgcaaaa   1200
acggaagcaa atacaactaa gacatgaaga ggagcatcgg cggcgtgagg aagaaatgat   1260
ccgacacaga gaacaggagg aactgaggcg acagcaagag ggctttaagc caaactacat   1320
ggaaaattat gtctgccatt tcctaaggtg ataaaagaaa atgtggctga agttacccga   1380
agttcagctt gcagtgtaat tcagaagagt taagaccaga agtactggaa tcatacttcc   1440
tttcaggtca aaacattttg tgggaaatat cctgttcgtg acctaggaga aacaagacag   1500
aaaaaaaaat ctttcttcat ttatgaattt cttactccat acaagcagtt tatggatgtc   1560
tgggcaatca tagcacttgc catttaaaaa catgctacag gggcacattt tctgtggtta   1620
aaaatgatct ccagaataag tgtaaactgc agttttcctt tgcattgagg gtttttggctt   1680
tttatttgta aattaaatca agatgttacc cactccttgg tgtggtggtc ttgctggttc   1740
gtgttgggaa gtagtatggc agcaatgcac aaattcagaa tagccaagaa atccctcctt   1800
ttcaacgctc tgtgcctggg aaccattaga ggagttttaa aaaccatccc tcatagccca   1860
caattttggg tcaactctca aaattgggaa taagaaaact ggcactgttg ggagaaaaat   1920
cgttcttact gaaacatgaa ctggctcagg caagcaaata gcgggagtcg gcacaggaag   1980
gagtgtgtgc tgcggggatg cgtggtggcg tcaccttcaa aactaaagtg ttgccaggcg   2040
gacagatgag tccttgatct tgtttcctga tcttgtttcc atttgactga attctgaacc   2100
ttcattgtct tcacagtctt gccacttgcc tagtgaggct tttccgaacc tggaaggaga   2160
cgtctagaaa tcccaacttt gctgtaacag acaaaaggac gtggaatgta ctttctgcta   2220
cagccattac agtcaactag atttgagtgc tgccgctgaa ctacagcttg tacactacac   2280
ggtccacaga gccgagcaat aacttcttta cccaaaaagt ttgcatggaa gataaacagc   2340
aggatgccag agcctgaaaa tgggagatgt gtgtgaatta cttcaaaggc aaccttcagt   2400
ccccagagga acactcaaca ccagatggaa gcaggcccct gagctgggcc tggtcagaca   2460
ggcatcaccc actctgcctg gaggctcaga ggaggctggc cctctcaaag ctcgtgtcac   2520
                                                                    2530
ctggcatttg
```

<210> 2967
<211> 2105
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2106)...(1283)
<223> similar to gi5771388 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2967

1770

```
tttttttttt ttatgtcatt cagcctttac tgtaaaaaag gaaacaataa aaacaaaacc    60
ctattaataa acacaatgca aacaatgccc gagattatca taaaaacata ctagcaagcc   120
acaagtacca gagaggggtg aacaggcata tctgctagct ctcctcttgc agtcctcagc   180
ctcccacagg aggcacaagg tccaaactat tcctcaaaaa aaaggacagc ctctttatgc   240
tgaaatagga actttaaagg aagctcttct tgtagtccaa atggacgtac cttgtggtat   300
ggctgtaagg actcgatttt acggcttgtg tattcctaac tatagctagg cctgtcacct   360
gctgttcctg tgatctcagc tttacctaga agagctcctg aaacagaatg ggtacacgaa   420
aatctggaat gaatagctat ctgctcaaaa acgattgttt aaaaacagat gattgggggcc   480
gggcgcggtg gctcatgcct gtaatcccag cactttggga ggccgaggcg ggcggatcac   540
gaggtgagga gatcgagacc atcctgggca acatggtgaa accccgtctc tactaaaaat   600
acaaaaatta gctgggcgtg gtgatgccag ccactcggga ggctgaggca ggagaatcgt   660
ttgaaccagg gagtcagagg ttgcagcgag ccgagactgc gccactgcac tccagcctgg   720
cgacagagcg agactccgtc tcagaacgaa caaagaaaca aacaaaccag atgactggga   780
gactgaagag gaaaaaagat gggagaaaac gtagggaaag gatggggcct cacagactca   840
gctgtgggtg gggggtaaa  tcattacctc aggagaagcc caaggaattg tccccgaggt   900
gagctttgga aagaaaacaa aaacaaaaac aaaaacacca aaaaacacct aaatttcctg   960
tattaaagtg acacataatc atgttttctg attctcttca ctgtctgcct gcggggaggg  1020
ggtgggggaag gtgttaatga tgctgatccc tacttctgct tcaaggagat ctggtgggga  1080
attcttccac cagtccagag tttgctggtg ctgacctcat ccctgtatca cgggcctaga  1140
atgtgggagg ctaataggat gggtgggttg caggaggtag aagaggggat ggcctagaga  1200
gtttctccat tcagagctgg agagttgttg aagggaaggg tattttaaaa gggctccacc  1260
cacccctagc cccagcccct cagctgtggg gagaggccac ctcctctgat ggggtctcga  1320
tgctgctgct ctgttcctgg tctggcacgt cctcctcttc ctgctccaag ctgaagttct  1380
cgagctcctg aaaaatctca tccatgaagt cctgggagtt ctgtttgtaa gacacagcta  1440
atcgaattgc atcattgaag agcttcacaa cattggtacc atcagcagcc gagacgaaat  1500
acaggggcag ggagaacttc ttggcaaaat tgaagctttt ttgggtcacg tttatgtctg  1560
ctgtagagag aaggtaggac attggtctgt ctgtcaaggg aagggaagaa ggtttggagg  1620
ggggggccac tggaggcctt cattccagaa agtgggatag gcagggatga ttgggaaaca  1680
ggtcctagaa agagctcagt aatagggat ctgtgtcttg aaagagggc aggtcggctt  1740
agctggcttc tttataaggt gggaagaatg caagcaacca accaagggtt gtatcttatc  1800
gtgggaggga ggaccaatca ctgaaggttg cctgcccggg gaatggagga ggaaatgtat  1860
gagggcaggt ccccagtgaa ttgctaacac ccaggtgcag ggatggcccc accatcaatt  1920
ttattggcca ccacgatgca tgggatctct ggcctgaact cccgaagctc tgtataccag  1980
gtgctcaggt tcctatgggt gactttcctc tggacatcaa acaccatgat gcaagcgtgg  2040
gtcttgtggt agtaggaggc atgcatgctc tggaaccgtt cctggcctgc cgtgtcccaa  2100
aagtc                                                              2105
```

<210> 2968
<211> 1841
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1842)
<223> n = a,t,c or g.

<220>
<221> misc_feature
<222> (1188)...(264)
<223> similar to gi2749982 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

1771

<400> 2968
```
tttttttttt ttatctgtat gaaatattag ttttaataaa acagaaccag tccatgtatg    60
gaggcatggg cataaggtca acttgcacta aatgtaactc gtacgttttt tctaaaataa   120
tttcttgagc attgtggtgg ccttatgtac taacccgaag ctgaacttcc tgggaagctg   180
atccaatgga gcacttggaa ttcaggggtg gagtcttctt cctgggtcag agctggttca   240
gggtcacatg ctcttgaggt ccctaaaggc cacatgtgct gcatttcgcc cagcagctcc   300
catcacacct cctccaggat gagccccact tccacagaga tacaggccct ggagagggca   360
gcggtagcca gaatgcaggg gcacggggcg ggcgaagtag agctggtcca gggacatggc   420
gcagtggaat atgttccctc caggaagccc gaagattctc tccaaatctg gtggtgtgag   480
gatgtctctg ccaaccacag agtccttgaa gccaggggca tagacctcga tgcaatcaaa   540
cactgtggga aggcaggcca tccatggcat cttcaaaggc ctgatgaagg aggagggtgt   600
cttcacagtt caggtggatg gagcattggt gatggggcag cggctggccc ctgggagcat   660
tgggggccgc caggaagctg ggcagcctgt ctacggccac ttctgaccag gctgcagggg   720
gacacaggct ggaggtccgg gaatggagat gatgactgag ttcagctgcc cccagcctgg   780
aggtttctca ctcagatggg tcaaaggaga cagtgctgca atgtggtgtg cctcttacca   840
ttgatcttgg tgacaggcga ccgggtgtcc agctgagaga ttctctccag gaactcctca   900
ggaagccact cctgtggcgt cagcttcagg aaggtgatct gcggtgatgt gttggacagc   960
accattttgc ttctcacctc tgtgccatct tccagcacaa ctccttgaac acagccttca  1020
ctgttcacct gcaccttcgc cactgtcttt tcagtgaaga tgcttgctcc atgtgtggtg  1080
gctgagcttg cgatcgcatc agagagggca cccatgcccc cctggacgta gccccaggcc  1140
ccctgcattc cctccaggcc ccccatcaca tggtgcagca gcacatacct gtggacagac  1200
catccgactc agatcctgga ggtgggatct catctcccca gagttccagg tgcaactatt  1260
cctttccatc ttgatcttca gcccttccct gccaccatcc agccctctcc cagcagcctt  1320
caatgagctc aagttcttgt aagagccctt tgccttctct acaccctctc cctaacaagt  1380
gtgtctatgt gcatagctta ttaccacaaa gaaggcaacg atgcccaaac ctgcagctcc  1440
agccctctcc tgagctccag ctccggtgtc cagctaccca cagatatctc cctttggacc  1500
ctttcttggc agcatcttaa acccaccacc ttttccccat tctccagctg cttccccttc  1560
aatctttccc atcccagtga acggcacctt tcaacaggag gttctgtttc cgacagaaat  1620
ccaggtgtca gccttgaccg ctaccatcct tccccatcta catccacaaa gcaacaccaa  1680
ctcagcctcc aaagggcttt caaggtcatc ccacctctca gccactcttc tcttcattat  1740
gctgctgcag tagtgcccct cattggaccc cctctcccac gaattccncc gcnctgtcct  1800
agagtcatca gtgagggnct catttnnccn ncggggcgc g                       1841
```

<210> 2969
<211> 3395
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3398)...(630)
<223> similar to gi5911903 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2969
```
tttagttttg gatacacagt gcacttcatt ccaagagatc ttactagaga tccccgacag    60
tcagaagatt tcccgcttga tcaggatatt tctcgacgtg tgttattgct ttgcttgtca   120
```

```
cagtttctta gggaaactgg gtgtcagggt aacactccta ggctggcctc ccatgaggga    180
gttacctcta ggaggcggca ggagttttat ctggcactga aaacttgctg gttggttttc    240
tagatccatg tttattttca gttcaaagac aaagtagaaa acttgagagt ggaaaatgtt    300
accttttagt tcacactcct aatcccttag tccccataaa ataaacattc taaagtgtaa    360
gcagtagaaa taatggaaac tccacagaaa cagaaataaa ttagtttctt tcagtcttgg    420
tggaggtcct tttgccgaac accatactcc actgtgaaca gaattcatct tgaacgaaga    480
agaaatcttt ggcctatttc accatgtctc cagcattgca taacagacat ttttcaaatt    540
cagtttcttc tccaactgca gcaaaaaggc aaagagtagt ctgtttcagg agtctgcatc    600
gggtcctgtg agagccttgt ccacttagaa caagcctta acttgttctg tttcggtatc    660
aagatctatg tcataaaagc agggccgggt gggcagtcct ggcatggtgc tcatcgttcc    720
gaccaaaggg taaatgaacc cagcgcctat gctggcccgg acgtcactga taggtaagat    780
gaagtccctt ggcacacctt ttttgtcagg ttggtgagat agagaaaggt gggtctttgc    840
catgcagatg ggcaaatttc caaaaccctg ttgagtgtaa cgatctattt tggcttgtgc    900
ctcaggagag agttcaatat ctttggctcc atagacagcc tgagcaatgg tccttatctt    960
gtccacaatt ggaacctgaa catcatacag gaactggaat cggcttcttt tactcgcagc   1020
ctctctcaca gcccgagcca agtccaccga tccttttcca ccaaccgacc agtgatagca   1080
ggggactgca tcaaaggcac cagcccgctt tgcaagctca cacaccaagt caatctcagc   1140
gcgggtgtcg gtcttgaaga cattcagagc caccacaacg ggaaccccaa agagctgagt   1200
gatctgaatt tgcttctgga ggttacagca gccgtctgcc accagctgga tgttctcctc   1260
tgtatattct ttcttaagag gaacaccagc cgttacactt ggcccgcctc catgcatctt   1320
cagagctcgc accgttgcca ctaacacaac cacgttgggc accaagccgg aagctcggca   1380
cttgatgttg aagaatttct ccattccgat gtcagcacca aagccagctt cggtcactac   1440
aaatccttct tcaccaacca gtttcagggc aatttttatca gccaacactg aagagttgcc   1500
gtgagcaatg ttagcaaaag ggcccgcatg cacgaacaca ggtgtccctt ccagggtctg   1560
catcaggttt ggttttattg catctttcat caaaactgtc aaagcacctg tcaccccaa    1620
atcatctgct gtcacaggct gcccgctttt gtcactggcc accaccatcc ttcccagccg   1680
tgccttcatg tctgcgaggc tgtccgtcag ggccagcacc gccatgatct cgctggccac   1740
tgcgatgtca aactgcgcct gccggtaatg gcccttctct gtgtttccct gcccgatggt   1800
tattttcgt agaaatcggt catttgtatc caatactctc tgccacgtga tggtagatgg   1860
gtcgatgtcg agacgggcaa atttactcac ttcctcttct gtcagtgtgc tcggatcagt   1920
.cttatttatt cccagttttt ttagccgagc aagctgaatt tctgaaaatt ctctgacacc   1980
attcactaaa ggaaccagcc gattatacag agccttatct gtttgcgtgt tttcatgaag   2040
aatcctcgtg tcgatggcgg cagccagcaa gttattggca gcggtgatgg cgtggatgtc   2100
tccagtcaag tgaaggttga actcctccat ggggatgacc tgggcatatc caccacccgc   2160
ggctcctcct ttcactccaa acgtcggtcc ttgggaaggc tgcctcaagc aggcaaagga   2220
gttgacattc aggtgtgcgg tcagagcctg cacaagcccg atggtgactg tgctcttccc   2280
ttctccaaga ggggtgggtg tgatcccagc aactaagacg tattttccat ctgcttgatc   2340
ctttaacctt tctagcacgg acaaacgtac tttggctttg cttttgccat agatttcaat   2400
ttcatctgca agcaatccaa tctccttggc aaggacatcc acagcttttg gagtttgtcc   2460
tcttgaaatc tcaatgtcac ttggcacagg ggagagaggc tgaagtttca agcagtgaag   2520
tctccaccgc ctgtgctgct gttcacgaag ccatctcctt ccactactga ccatgttctg   2580
aattcgcaga gctgcagcaa ggagaatcac atcatcttcc tcaatgagtc caccaaaatg   2640
tattcttgga gagccacacc caaccttccc tgacaggaag tcatgggagc agttgagaac   2700
agtagttcct ggttgtatcc aagtaagggg aatctcttct ggcttaggtg agcctaggac   2760
cacaatgtca gcctcgtgaa gcttgctttg aagctggcgt gttttccact ggatgctcat   2820
tgtcatggac ccttttctct ggaacaggca ttgtagagca gcttccaaag acccatgggc   2880
ccccactacc aaaatcttct ttccatctag gttgacacct gattttcaa gaagttcaat    2940
tacagctttg gcaacaggtg aaacaaaaca ttcatgggca tccctcgca ccagcttccc    3000
caggtttatg tctgttactc catccacatc tttttctggt ttcaaggcat tgaggacttt   3060
gttgctaaac aagttctcag agatctgaag ggcaaggcca tgtactctgg tatcttcatt   3120
gatctttaag atttcatcta taatctcggc ttcactgcta tctggacgcg aggcaaactg   3180
tgagtgatgt tcagaccagc ctcctcagcc aaatctctgg ttgatttcct agcatcaagc   3240
ttgtccgtca cctcgcctgg ataacttgca acgaaccgcg cttgaagcgc agcagttttt   3300
ttcttgccaa taaactatag atacttcttt tgaattctga atgacttctc tgacgacgga   3360
gtcccgcgcc gcgggcgttc ggccgccggg gctgc                             3395
```

<210> 2970
<211> 1753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature .
<222> (1714)...(1016)
<223> similar to gi1907152 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 2970
```
tttttttttg gcttgttttt taaataaacc aaagtcaaaa acaaactgag agtgtgtcct     60
ccaacagctc ttcctactct ccttaggctt gccccgcgtg cccttcccac cccagcgcct    120
ctgctggacc aacggtgcag ttcgctccaa gaaggtgggc cagggcccgg ggaggtgcgc    180
aacacacccc tggcatgctg ggcttgcctg ctggagggtg ctgctgctcc gtggagggca    240
gcaggcccag gaaggggttt cctctgctcg cctaagttac agcacaatac tatgtggacg    300
tttcattgaa aattttactt gaaaaaataa aattccagat actcaggtga gacacaaacc    360
cactgttcct gctttgagac ctgtgaattc ttgtgggaca gttccactga cagcttgcgt    420
tcccgaggta ccagtcctca gtgacctcgg gaaccccaac cacttaggtc ccaaagccac    480
aagggtgccc tttgtcttgc tgggaagctg gctgagggcc tgccagggct ggaggaccag    540
ctctcccgca cagggttcag ggcctctccc agaaaaaaga ggttttgaag tgaaaaggca    600
acgaggggcc agagggctcc ccaggatggg tcttttggag gtagatttga tgcccacaac    660
gcatgcaagg ctaagacccc caacttagcc aacgaagccc atggcctcag aagggctgca    720
gcttgctcag gccgtgggcc aggatgcatg ctggacggtt ctccaaataa aaaagcccca    780
agggtttgtc tacactgctt acctgctggg gctgtgagtg gggagacggc ggcctgccta    840
gggctcctgg tgccaggctc aggaagagtc attcattgca aagggccggc aagtgaacca    900
gggccacctc tgtccccagc ctgtgagagg agcagctagc cctgagaagg gcaaggatga    960
atgaggctga ccacgtcaca ggagtcctcc aagagtgacg gggattcagt catcggccac   1020
aatggagagg gcccggagct cactgagttt ggcctcgttc tcccgctccc gctgctcatc   1080
ggagtggcct ggctggtcaa gctgatggga caggtctcca aagatcttgt gcatttccga   1140
gtagtacaca acctgagctc ggatgaggga ctcgaagctg ggctggaagt agtcgaggcg   1200
gctgccgtag aagcgcggca tctcctccag cagctgcctg ttcttggctt caaagtcctc   1260
ccgcacaggc cgcagctcct ctcgtgcctg gtggagcttg gccagcactg gccccgtctt   1320
ctccttttcc tcatacttct ccaccttggc ctgcagcctc ctgtagtcct gcaaggcctg   1380
ttcccgcctc ttcacagcca tgttgaggct cgggaagaca ctgccgaact tttttaaggg   1440
ctcgatcaca gtcttctgga tctggttcac cttttcctga ttgaaggcat ccatccgctt   1500
catggccgtg tccagggccg tcaccatgtt cagaaggtcc tggtcttgct cacagagggg   1560
attggagagt aagtccaagg atatcttcac ggcagatttt gacatggtgc tgaagttttc   1620
catactccct ttcaaagtct ctctccactg ttttgggcac aatctgtttc ttgggctgcc   1680
caatcttaaa aggaatccag ctcatggtcc cgaacctgcg tctgccgccg gggtcctcag   1740
ccacaactcg ttt                                                       1753
```


<210> 2971
<211> 1159
<212> DNA
<213> Homo sapiens

1774

<220>
<221> misc_feature
<222> (1)...(1160)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (4)...(440)
<223> similar to gi3650031 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

       <400> 2971
ctccctgacc ggtccccctg ccctaactcc tccctgaccc gttctccagc cctaactcct   60
ccctgaccag tcctcctgcc ctaagtctcc tccctgacca gtcctcctgc cctaagtctc   120
ctccctgacc agtcctcctg ccctaactcc tccctgacca gtcctcctgc cctaagtctc   180
ctccctgagt ggtcctcctg ccctaagtct cctccctgac cggtcctcct gccctaagtc   240
tcctccctga ccggtcctcc tgccctaagt ctcctccctg actggtcctc ctgccctaac   300
tcctccctga ctggcctcca tccaagcaga gcttgagtat tgctggttcc ctgctcaaac   360
ccaccactgg ttgctggttc cctgctcaaa cccaccactg gcactggctt cccatcacat   420
acagaataaa ggctaaatgt ctacacttgg cacagaaagt catcaacagg ccccagggca   480
cgtttctggt gttatcttct gctaatgccc tgccctgact cctatgctgc agctgaatgg   540
aacgagccat tatcccctca ggaacgctgg cttctcagta aacgattata gcccagaagc   600
cctgtcatca cagaacctag ctattggcta atgggtcagc tttggcttca tttctctgaa   660
taatttattt caaaacataa tcccaaggaa caaggttagg aaaaggggag ggtgacaggg   720
acagagggag agcctgtgca aagacgtgtt atccagttgg cccctgctgt ggctggctgg   780
ttgctcaatc ctgtaagatc ttctaagaag ctttatgaga tgtagtgaga accatctgtc   840
ctggggatga gtctgtctgt cggcttccat tcctcatggg ttatgagttg ctccacagga   900
ttctggatgt atacagatgc tcttcatctt aggaaggggt tacgtcccaa taaacacgtg   960
gtaagtcaaa aatactgtga cctggaagct ttctcctggc tgcgagttgt cccacgtttg   1020
cttggcgttg cccggccttt tccagactga accaatgttc atcttacatg tgttgattga   1080
tgtctcatgt ctccctaaaa cgtatgacca ccttggcaca tgtcgtcagg acatcctgag   1140
                                                                    1159
gctgtgtcac ggntgtgca

       <210> 2972
       <211> 1249
       <212> DNA
       <213> Homo sapiens

       <220>
       <221> misc_feature
       <222> (1250)...(323)
       <223> similar to gi5531811 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters

       <400> 2972
tttttttttt tttgtggaaa acaacacctt atttattcag ggtgtaatac tgtctacttc   60

1775

```
ctttcagaag acttgaaaaa gatcaaaata ggataaatgg acagttacta ctaaacgatt    120
caaatacttg ggcagtatct ttccctctta acccttttcac acgtttttaa agtgtcaaaa    180
ttgatgaatg gtataaattc aaaaggaaaa ttctttttcta ctgaaaagga catccagctc    240
gcacaaacgg tggttcagct gaaggcaagg cgtttctggt tttcctctgc actcgggcgg    300
atcgttaact tccccaagtt acaactgagt tgctctttcc aggctttcg aagcatcttt     360
aagtttcccc accaagtcct gtaattgttc catgctgcaa ctaaaactaa tctctggata    420
ggatggggaa tcagtgttct gtacacttaa ggtcaccaaa tatgcaggtc tgtacatcct    480
atgaagttga ttggtcttta tctgatattc caagcgccaa gaaacatccg ttatatgagg    540
gagaaatctg cctatactga aagatgcaat gataacttcg tacatagtct cctcagaaga    600
acttttcagt tatttatatt tactaagaat ggctctactt tccaccccca actccatttt    660
aatccattct gaatttaaac cattgttaaa ctttatttt aaattatgaa tggtaaagga     720
gcatttcaaa atcatctcaa taaacgatct ttaaaaacat gagcttaact tcaattgctt    780
gacatgccct ttggctcctt ttctttgggt caagatcccg aagatcttgt ttcacaccaa    840
cactctccat tcatacctgc aagtgaaaag tgcctcagct tgacaccttta tacagtacct    900
accttcccag taggatttct agggaattct tattatactg atattccgtg caaaacagtt    960
ctattcgctc tctgtcaaat ttacagtctt ctagataagt gcttagagtt gacttgtcag   1020
ctcggtgctt tcctgcctct agtatgtaag ttgcagctgc tgcatgacaa tgttttaaaa   1080
ccactgggtc gatatgtttc aagtctggat gatctaacac ggcctcgtcc gcctgggcgt   1140
ccagcagact ctggaatgcc gcccggagga gaagcgtgaa ggcgttggag tcgaaggagc   1200
ggggatccgc cagcatctgg aagcctttct gcacagactc cgagagctc               1249
```

```
        <210> 2973
        <211> 5664
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(5665)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (5665)...(3934)
        <223> similar to gi1510153 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 2973
tttttttttt ttgcacagaa aacattgctt tattaactgc gtttgccaac acacgaggag     60
tgcaaagggc tccctatgac acaagccctg gtggggccgg ggtctggaag cccccatgag    120
tgagcaggac aggatggggc tgggaactat gcagcagcgg caacacagaa tcatgcaggg    180
cacagcgggc actggccaca cccaggtgac catacattct attgctcgtt aagggttgcg    240
cacatggaca atgtacaaaa aggagaaata ggtctttgcg ttaatgaaaa atacatttttt   300
tctctacaaa ggaatctttt ctaatacaag aaaataaaata ttgcaacata agccaaaaat   360
aatttaaaat tgctcttttc aatatatttt caatatttct cttgtatatt aacaaatggc    420
acatcacttt ctttgaaaca aagacagaag gtgtctcctc ctgtgacatt catatcatcc    480
ccccaccgtc ccctcaaact gacgtggaac acaaagtgtt tgtgcctctg agggagaaag    540
tggcaggagg tgccttaaag aacaaccaaa ggtctcagac tccagccctg gctcattggc    600
caatgtggcc agcgaggcca agggcatggg agagtgccct ccccaagggc cttgctatag    660
aaatccagat cattttttcag tggtttgcat atggacaaag gttggccaca tctggcagtt    720
```

1776

```
agcaaggaaa tgccaagttc agccgctgcc aatgttggtt agaattgggc agttgaatct   780
ctaggaattg tcccagctag tcccacagtg tgcccataca cagtatacac aggcatgcct   840
gcatacggac acacgagacg tggcctggca cacccccac aaacaattca acatctatgt   900
ctggaaacct ggggtggctt ctccaaggaa gctgaggccc ttacattgca aatgctcaca   960
cactgtcact aagtcaggct catttaataa aataaaccct tctacctttc ttcttctcat   1020
ttgtttcaaa atacatttat gatacataaa aatactttc ttgcacatta tcctttgtca   1080
tgtgatgagg gggaaggagg tggtgggcgg tcaggtcagt gagaagggg acgatagcca   1140
gaatgagtta cagagcagct tctccttccc tgcggaggag ctgtgtgtgg aggcagatgt   1200
ggttgagaga aagatctacc tccacctctg acctggaaaa ggaacctgcc tcagtctcag   1260
ggacaagcaa agccctctac actggggaca gtagaccgga aaaagacaga agcggctgtg   1320
accaacaggg gaaaggctgg gaactggggg aggatgggtg gctggcatcc ttctccttgc   1380
agcctgctgg acatcctgga ggtggagaca gctgcctgaa gaagattgct ccagggcttg   1440
gcctgggagt gaaagggcac cccaaatgaa aggccacccc cctcccctcg cagcagccag   1500
ccagcctaac agacatttgg gttctgcagg acacaggctc agcaacagtc cagtccaaag   1560
caacagccaa tgaagaaggg ccagaatcca gaggccaaca atgtgagcag aggctcttgg   1620
aagaacacca gccagcccga ggcaaggggc cagactcgtt gcaccctctc cctaattctc   1680
cacccacccc tgccaccagg gaggcccagc ccctgcccca ggatggtgtg aaggggcaag   1740
gggccaagtg ctgagactgc tggaccctgg gctttctggg acccctggca gagtttggtt   1800
gttctttaag ctcacctctt tgcttcctgc agggtcagac cgggcaatct ggcacagaca   1860
gggttgcagc ccgaggtgac ccaaagcatg gggaaggaag aagttctgtt caaaggcagt   1920
aaacagagac tggggttggg acactgatgc tgacactgac tggtcactac tacccaaggc   1980
gggcaggcag aactaaactc tacagggtag ctcatgccat cccaacgccc agaatccttg   2040
aagcccaccc cactccctcc gagtccaccc ggactagaca catttgtccg atcctctgaa   2100
ctgagtcatt atctttgttt cctgttttgc taaaattcac atgaaattga gtgtcgatga   2160
caatgccact gtcgtacctt gatagttttg gagttagggg tggatgaagg tcaagctgtt   2220
ccccatcctg cttatttgct ttatgtattt ggggaggagg gaaccacatg gtaaagacgt   2280
tttccatgct ggtttcaccg tcagtatctt tcccctctgt gagtctcaca gtttaggaaa   2340
gctcacagtg ggctcagccc aggatctgaa atctaacacc caggtacact tcagcagcag   2400
caaagcatcc tcttccaagc gcttgagctc ttctccttgg gtgtgtgcaa tgaacatgtt   2460
tctatacttt gttgctaaag aactccattt aaaaaaaagt ccaaatgaca agttgtcagg   2520
tccaggctgt gctgtattat ggtcaaaata ttctttggca tccacagaat gattcgactg   2580
attcactgga cttttgcaa ggttcttttt ggagaagttc tggctttacc agtggtggaa   2640
gtgacccagg agtaattcat caaagaaaaa aaaatgtttt cacggaattc cttttttgtt   2700
gttccctgag ctatcaccct ggggccactc tactgaaact cttcagagca actacctggg   2760
acctaagggt ggggtgggga aggcaggacg gcggggggg atggcaggac ggggggggg   2820
ggatggctgt gccaggggtt aaggctcagg aacaggggaa catccagcaa gacttacaac   2880
agccccagcg gccaacaccg gcccgccctg ggccccggga tcccactgct tgttggaagg   2940
aggagtttcc aaaaggaaac cacggaagaa gctcatcttg tagcaggact aggaaacttg   3000
aaaaggcaaa cggtctggtc tggtcagctc tgtctgagcg tgaccagact tcggccgaga   3060
ctggccccga aggaaggaag gaagttggag cctcagagtg attctctaca gtgggctggt   3120
ctgagcccca tgaccctgtc tgggcactgg ccctccccta cagccctcca cctgcactgg   3180
cagctggctg tttgggagtc ccctgagtaa atggcacagc tcaggaggga ttctgggaac   3240
cccttcccag agccgctggg ctgggcactg gcaggggcag agcagcaagg gaggggaggg   3300
tggcagggtg ggcaggcagg cctcagatga tacgggctga tcaggaacag ctttcagttc   3360
ccctggaact agcgggccct ctgcacccc tcagtgcttt ctcatataaa ctcgttgtgc   3420
ttgtgacagt gagtagactc tggctgggta tcgtttatta tacttccttg gggatcggtg   3480
gagtgtagca ggaccccca aatggacccc agtgggatct ggggcaagg cggggtaggc   3540
cctggactgg cccatctgcc atgaaataat gcccaaacga cagtctgtgt cacccagtgg   3600
cagtgggctg gagtcctgag ctcttgtcca ccttgcttgc atctagccag gagcccagca   3660
ataccacgtg ggcagggcag ggatggtgcg cgggacctgg cagggtccta gcggccggag   3720
ccgtggaagg aatcctaatg tcctaggcca gcacagagga aagacaacag tgtagaattc   3780
aaaactctct ctatattaaa aataaaacca cgacggagtg gcagcctcga gggtctggga   3840
cactcagcag agactggaaa tggcagttgt gactgggctg aggccttgtg ggggaccag   3900
ggcagggcct gggacaggga aggggtgag ttaggaggcc agtacgccca tgcggaccac   3960
cctcctttgc ccctgcctcc cggggacccc gctgcacccc accgtcctcg gcctcttaca   4020
tcttgagttg ctcatctccc cattcagaga agtaagccat cagtctcagt gtcaaaatgc   4080
aggcttgacc ttgggcctct cagccacagc tgaaaggtgg tccccatccc cagcatcagg   4140
```

1777

```
cctgggcacc cgggcaatct ccggggttta ccttggctct cgcgggggtg gccggagccg    4200
gcccaaaggc ttagggcttg ctgcagggcc agggcacttg gacatctgag tcagcagcta    4260
ctgaggctgc ctcgtccggg gtctcagggg ccagtggcgg ggggctttca ggggtggcta    4320
ggatgggaca gtccccggct gcagggctgg acggcaagtg agaagatgtc cgacgtggtg    4380
gcttcctggt aggtggccct tgaccccct tgccactgcc tgcatcctgg nccccaggtc    4440
ttcttggggg ctttgtctgg agtcgtccgt gaaccaggcc cgtcctgcgg tggtggtggt    4500
ggtggtttct tcttggcagg caggcgggtg cggcctcggg ccttcctagc agggtcacca    4560
ggtcgcagcg aggggtcccg catgaagctg agcagtgtct cctcgtcctg cagcagttcc    4620
tctgacagca gccctggagc agggtcctcg cggtgcccat tgttcagtgg ccactcgctc    4680
atggccatgt tctctgctgt gatctgcacc gactgtgcca gccagctgtt gaagaaggtg    4740
ccatcgatgg ggaatgaggt ggacaggcct gctcgacaca gatcctgttc aataagtttc    4800
atctgcaggt ggaatatctg ctcctggagt ttgcagatgg cgtgtttcgt tctctcgcgc    4860
cttgtcacca tgtagcacag atttctaacc ctctctaggt cctgccgcag atgggtgaag    4920
agcttcaggc ggcggtagag gacgtcctgc tcctgctggg ccaggttgtc cacctcgtcg    4980
gtcttggggg tcagcagcgg ctggttggca ttggctttcc tcttcagctt ccagtactgg    5040
tagatgaagt cgaccagtgc ctcagccagg tccagccgct cagccacctc agccggctcc    5100
accagctcgt agaagtcctc ctctagctgc tgcagccgct gcttgcgcag ggtcaccttt    5160
tccaggtcct cgccagcctg gctgggttcc gtgggctcag atgtgggctc attacgtggg    5220
cccccgtcac tgtgctcctg gcagaatgac ttgaacttga cctcatcgtt gtctgctaat    5280
atagtccgca tttccaggcc gtggtcaaag gcgcatgtga catggaacgc tgtgaccgca    5340
ggaaggcatg gaacactgga tgcaggtgcc tgtgcattcc ttgcagaggc tgcaggacag    5400
agcccagcgg ctggctggga tatgcgagat cttggtgatg ggctccatct tctctgggca    5460
gccgatgctg acctcaggaa tccatagggc acagctgaca tgcacccact tggtcccact    5520
tctagtgggc ttcaaggctc ctcctcgctt ggggcagagc aggcactttg gctggacacc    5580
cagggcacac gtccggcaca gccagctgcc cgtgggcacc ttgaggatcc cgtagcatgc    5640
ctgatgcaca cagacgttgc actt                                           5664
```

<210> 2974
<211> 1336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (75)...(1109)
<223> similar to gi3170538 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2974
```
ccaagctaga aggaaaggga atggggggca tgttagggaa ggggtggaga gcagggtctg      60
gcaagtgact ggctcttgtc cctacagtgt gtactccact gggtctcgcc cgcatgttct     120
ccgtcactgg gaagctgcta gtcaagcccc ggctgctgga agacctggag gagcagctgt     180
actgctcagc ctttgaggag gcagccctga cccgcaggat ctgtaatcct acttcctgct     240
ggctgccttt agacatggag ctgctacaca gacaggtcct ggctctgcag acacagaggg     300
tcctgctggg tatgtggctt cgtagggctt gggatacctg ggtttcccca aggagagtag     360
cccctggttc caggtgcttg ctgacagcct cccatccctg cacagagaag aggcggaagg     420
cttcagcctg gcaacggaac ctgggctacc ccctggctat gctgtgcttg ctggtgctga     480
cgggcctgtc tgtgctcatt gtggccatcc acatcctgga gctgctcatc gatgaggctg     540
ccatgccccg aggcatgcag gtaccaggct gccctcccac catatccttt ggggagggcc     600
taagaacagc tggggagagg aggcagaagc tgaggacagt gggaaggctg ggtgccgggt     660
```
```

```
agtgctgatg gtggggaatg ctcacagtga tactgcccca ctcctcaggg tacctcctta    720
ggccaggtct ccttctccaa gctgggctcc tttggtgccg tcattcaggt tgtactcatc    780
ttttacctaa tggtgtcctc agttgtgggc ttctatagct ctccactctt ccggagcctg    840
cggcccagat ggcacgacac tgccatgacg cagataattg ggaactgtgt ctgtctcctg    900
gtcctaagct cagcacttcc tgtcttctct cgaaccctgg ggctcactcg ctttgacctg    960
ctgggtgact ttggacgctt caactggctg ggcaatttct acattgtgtt cctctacaac   1020
gcagcctttg caggcctcac cacactctgt ctggtgaaga ccttcactgc agctgtgcgg   1080
gcagagctga tccgggcctt tggtgagagg gagtgagggt gcaggctagt ggggggtggt   1140
aatcatctag gacactctgg aacatggatc accccagcag gggagagggt gtgcttcctg   1200
ctttgtgggt aacgtacctc atccacacat tctgtggctt ggctgcctgg tccctaacgg   1260
actggacctt tgacttgctt ttgactgccc atctcctctt ctccagggct ggacagactg   1320
                                                                    1336
ccgctgcccg tctccg
```

<210> 2975
<211> 1512
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (249)...(1167)
<223> similar to gi3043548 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
<400> 2975
ctgagagtga gaacagtaat acgttcagat ctaagagtgg gaaagatgcc agttttgagt     60
ctggagctgg ggataacacc agcatcaagg ataagtttga ggctgctggt ggagttgata    120
tagggtcttg gttctgtgct ggtaatgaaa acacaagtga ggacaaatct gcacctaagg    180
ctaaagccaa aaagtcatct gagtcaagag gcatatatcc gtacatggtc cctggggcag    240
gaatggggtc atgggatgga gccatgatct ggtcggaaac taagtttgca catcaaagtg    300
aggccagctt cccagttgaa gatgagtcca gaaaacaaac caggactggg gaaaaaactc    360
ggccctggtc ttgccgctgt aaacacgaag ctaatatgga tccacgagat cttgaaaaac    420
tcatttgcat gattgagatg actgaagatc cttctgttca tgaaatagcc aataatgctt    480
tatataacag tgctgattat tcttattctc atgaagttgt tcgtaatgta ggtggaattt    540
cagttattga aagcttgctc aataatccct accccagtgt taggcagaag gctttaaatg    600
cactgaataa tatctcagtg ggctgctgaa aaccatagga aggttaaaac ttacttaaac    660
caagtatgtg aagacactgt cacctatccc ttgaattcaa atgtgcagtt ggctggacta    720
aggttgataa ggcatctgac tattaccagt gaatatcagc atatggttac aaattatatt    780
tcagaatttc ttcgtttgtt aacggtgggg aagtgggaga aacttaaagg accctgtttt    840
tgggaatgct tttgaatttc tctaaaaatc catctatgac aaaagacttg ctcattgcca    900
atgcaccaac atcacctgat taacattttt agcaagaaag agacaaagga gaatattctt    960
aatgctcttt cactatttga aaatataaat taccatttta aaagaagagc aaaagcattt   1020
accccaggga caaattcagt aaaaattccc tttatttcct attccaacga cctaaagcat   1080
gtgccaagaa acttcgagcc ttagcagcag aatgcaatga ccctgaggtg aaagagagag   1140
ttgagctatt aataagtaaa ctctgattgg ctgtatgttc ccaaacaaat ttgagtaata   1200
ttttggtttt gcactctgga agtaatgcac attgtaaatt gcattataac tttgaaactg   1260
atgttaccta tgatggtcta tagctggaac catttaatgg aacaccaaat gaattcaagc   1320
ttgtactaaa aatacatgtg ttgatttta tcttgtctgg attgagatat ttttagtatg   1380
cttcatgagc agaaactgaa tggattcttc ataagtaagg taatctttgg tcctttgtgt   1440
ggacttatgt ttatacattt aagactattt ttatgtcatc aataaagttg tgtgttttaa   1500
```

gcagcagaaa aa

```
<210> 2976
<211> 1318
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1321)...(0)
<223> similar to gi4098124 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


        <400> 2976
tttttttttt ttgtttgcag cacaatttat tatctggcca tagtatttgg gtacattatc      60
aggtaccgat ttaacaccat gtaacctctc ttgacacaga gcaacccaaa aagaaaactt     120
taaaatgtgc gacagaatta aatatcaagc tttgtcatct aaaatcgtat aaatataaaa     180
tatcagtcat ttctggaaac atcttaagaa aatccggcaa ccacatgtcc attgagtagg     240
tgtctgatgt tgacggtgct tacattcagg acatatcacc tcagatccaa cacaattatt     300
tttattgtct tttaccaaca catgtttgca ttatactgaa cagcctgggc tccttggtgt     360
gtggatgaaa gccctttttt ttacaagcag aaacctcaag catgccagca ttggtgagcc     420
tgaagatgcc agtgtcttta tgctttggtg agcaaacaat ggcaatggcc tctggcaaca     480
tgagttgata ggaacagtga gtgtgaagat caacgctgga taaaaatgca gtttgagtgg     540
gatgtgtatg gatccatcct agagtgagga gatcatgttg atcctgaaca ttgaataatt     600
cctctacatt ctccatgtca caatagtctg gtcccgcaga ctgctttggc acaattacat     660
gggtaatagt aaattcatta tgtgtcagtt ttccacagag tattccacag gtttctattc     720
ctctcactgt attagattct gccagttgca gaaatttgtg gcaaagatct tctggcaaaa     780
ctacacatcg cagtccttca accactaaat tctgaacagc acttagagta gcagcttgcg     840
tttaagccct gtttacaggg aggagagtgg ctagcataat tggtgccatc acttttatta     900
ggttgatctg caaatacatt cagcaaggaa ttgttctggt gtgtggaaaa gcaggacaaa     960
gtgctcccat caatctgctc tgacagccct gaggtttgct gacttcgcat ttgacctcgg    1020
gctaactctt gcttcttgag ttgatcttcg aaaaacagaa actgctccga ttctagctgc    1080
tgctggcgca tctgagcaat ccgcttcctt tctgcctcta tcaatctctg atgctccaat    1140
tttttgagaa tttcagcttt atatttgttt ttgctttgca aatattcttg gtattctacg    1200
ttatatttct ttaaaaggtc gtttttcaat tcatctgtcc ttgggaatgc aatctccttc    1260
agtttcttca taatatcctg cttttcaggt actgcacatt gctggtaatc ctcgtgcc      1318


<210> 2977
<211> 3593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2183)
<223> similar to gi5759129 in the genepept database release 114,
```

Run with FASTXY 3.3t00, default parameters

<400> 2977
```
atgagcctct ccatgagaga tccggtcatt cctgggacaa gcatggccta ccatccgttc      60
ctacctcacc gggcgccgga cttcgccatg agcgcggtgc tgggtcacca gccgccgttc     120
ttccccgcgc tgacgctgcc tcccaacggc gcggcggcgc tctcgctgcc gggcgccctg     180
gccaagccga tcatggatca attggtgggg gcggccgaga ccggcatccc gttctcctcc     240
ctggggcccc aggcgcatct gaggcctttg aagaccatgg agcccgaaga agaggtggag     300
gacgacccca aggtgcacct ggaggctaaa gaactttggg atcagtttca caagcggggc     360
accgagatgg tcattaccaa gtcgggaagg cgaatgtttc ctccatttaa agtgagatgt     420
tctgggctgg ataaaaaagc caaatacatt ttattgatgg acattatagc tgctgatgac     480
tgtcgttata aatttcacaa ttctcggtgg atggtggctg gtaaggccga ccccgaaatg     540
ccaaagagga tgtacattca cccggacagc cccgctactg gggaacagtg gatgtccaaa     600
gtcgtcactt ccacaaaact gaaactcacc aacaacattt cagacaaaca tggatttact     660
atattgaact ccatgcacaa ataccagccc cggttccaca ttgtaagagc caatgacatc     720
ttgaaactcc cttatagtac atttcggaca tacttgttcc ccgaaactga attcatcgct     780
gtgactgcat accagaatga taagataacc cagttaaaaa tagacaacaa cccttttgca     840
aaaggtttcc gggacactgg aaatggccga agagaaaaaa gaaaacagct caccctgcag     900
tccatgaggg tgtttgatga aagacacaaa aaggagaatg ggacctctga tgagtcctcc     960
agtgaacaag cagctttcaa ctgcttcgcc ccaggcttct tctccagccg cctccactgt    1020
aaaggacatc gaacctcaaa gattttatgt cccagccgag ggtgaagagc gacgcccgag    1080
gccgagagca agaggagca tggccccgca gcctgtcgac gcgggccaag atctcccccc    1140
acccacgtcg gaggagccct gccgtgacaa gggcagcccc cgcggtcaag gctcaccttt    1200
tcgctgctga gcggccccgg gacagcgggc ggctggacaa agcgtcgccc gactcacgcc    1260
atagccccgc caccatctcg tccagcactc gcggcctggg cgcggaggag cgcaggagcc    1320
cggttcgcga ggggcacagc gccggccaag gtggaagagg cgcgcgcgct cccgggcaag    1380
gaggccttcg cgccgctcac ggtgcagacg gacgcggccg ccgcgcacct ggcccagggc    1440
cccctgcctg gcctcggctt cgccccgggc ctggcgggcc aacagttctt caacgggcac    1500
ccgctcttcc tgcaccccag ccagtttgcc atggggggcg ccttctccag catggcggcc    1560
gctggcatgg gtcccctcct ggccacggtt tctggggcct ccaccggtgt ctcgggcctg    1620
gattccacgg ccatggcctc tgccgctgcg gcgcagggac tgtccggggc gtccgcggcc    1680
accctgccct tccacctcca gcagcacgtc ctggcctctc agggcctggc catgtcccct    1740
ttcggaagcc tgttcccctta cccctacacg tacatggccg cagcggcggc cgcttctctg    1800
cggcagcctc agcttcggtg caccgcaccc cttcttaatc tgaacaccat gcgcccgcgg    1860
ttgcgctaca gcccctactc catcccggtg ccggtcccgg acggcagcag tctgctcacc    1920
accgccctgc cctccatggc ggcggccgcg gggcccctgg acggcaaagc cgccgccctg    1980
gccgccagcc cggcctcggg tggcagtgga ctcgggctct gaactcaaca gccgctcctc    2040
cagcgctctc ctccagctcc atgtccttgt cgcccaaact ctgcgcggag aaagaggcgg    2100
ccaccagcga actgcagagc atccagcggt tggttagcgg cttggaagcc aagccggaca    2160
ggtcccgcag cgcgtccccg tagacccgtc ccagacacgt cttttcattc cagtccagtt    2220
caggctgccg tgcactttgt cggatataaa ataaccacg ggcccgccat ggcgttagcc    2280
cttccttttg cagttgcgtc tgggaagggg ccccggactc cctcgagaga atgtgctaga    2340
gacagcccct gtcttcttgg cgtggtttat atgtccggga tctggatcag attctggggg    2400
ctcagaaacg tcggttgcat tgagctactg ggggtaggag ttccaacatt tatgtccaga    2460
gcaacttcca gcaaggctgg tctgggtctc tgcccaccag gcggggaggt gttcaaagac    2520
atctccctca gtgcggattt atatatatat ttttccttca ctgtgtcaag tggaaacaaa    2580
aacaaaatct ttcaaaaaaa aaatcgggac aagtgaacac attaacatga ttctgtttgt    2640
gcagattaaa aactttatag ggacttgcat tatcggttct caataaatta ctgagcagct    2700
ttgtttgggg agggaagtcc ctaccatcct tgtttagtct atattaagaa aatctgtgtc    2760
tttttaatat tcttgtgatg tttttcagagc cgctgtaggt ctcttcttgc atgtccacag    2820
taatgtattt gtggttttta ttttgaacgc ttgcttttag agagaaaaca atatagcccc    2880
ctaccctttt cccaatcctt tgccctcaaa tcagtgaccc aggggagggg gggatttaaa    2940
gggaaggagt gggcaaaaca cataaaatga atttattata tctaagctct gtagcaggat    3000
tcatgtcgtt ctttgacagt tctttctctt tcctgtatat gcaataacaa ggttttaaaa    3060
```


1781

```
aaataataaa gaagtgagac tattagacaa agtatttatg taattatttg ataactcttg    3120
ttaaataggt gggaatatga atgcttggaa aattaaactt taatttattg acattgtaca    3180
tagctctgtg taaatagaat tgccaactgt caggttttgt gttcttgttt tcctttagtt    3240
gggtttattt ccaggtcaca gaattgctgt taacactaga aaacacactt cctgcaccaa    3300
caccaatacc cctttcaaaa gagttgtctg caacattttt gttttctttt ttaatgtcca    3360
aaagtggggg gaaagtgcta tttcctattt tcaccaaaat tggggggaag ggagtgccac    3420
ttttccaggc ttccactttc aaattcctta aaatataact gagattgctg tggggaggga    3480
ggagggcaga ggctgcggtt tgactttta atttttcttt tgttatttgt atttgctagt     3540
ctctgatttc ctcaaaacga agtggaattt actactgttg tcagttgaaa cag           3593
```

<210> 2978
<211> 3031
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3032)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (239)...(407)
<223> similar to gi3878119 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2978
```
ttttaatgag agtattgtgg tagacatgaa aagcggcttc aatctggaag aactggaaaa      60
gaacaatgca cagagcataa gaggtgagaa ttgtgtgtcg ctgctgtctt catcagctga     120
caggccagtg gagctcttac ctgtttacat gggcttgctt tctttcccag ccatcaaggg     180
ccctcatttg gccaatagca tccttttcca gtcttccggt ctgacaaatg gaataataga     240
agaaaaggac atacatgaag aattgccaaa acggaaagaa aggaagcagg aggagaggga     300
ggatgacaaa gacagtgacc aggaaactgt tgatgaagaa gttgatgaaa acagctcagg     360
catgtttgct gcagaagaga caggggaggc actgtctgag gagactacag caggtgaaca     420
gtctacaagg tcttttatct tggataaaat cattgaagag gatgatgctt atgacttcag     480
tacagattat gtgtaacaga acaatggctt tttatgattt ttttttttaa cattttaagc     540
agactgctaa actgttctct gtataagtta tggtatgcat gagctgtgta aattttgtga     600
atatgtatta tattaaaacc aggcaacttg gaatccctaa attctgtaaa aagacaattc     660
atctcattgt gagtggaagt agttatctgg aataaaaaaa gaagatacct attgaaaaat     720
gtaagtttta tttacagatc aggccacagg ttacaaaatt aaaaccaaca gcagttttga     780
attatctgta ccagctagct gaactagcca tatcagttct tctttccagt cattcagcat     840
tgtagtaaga aaacacttgg taaggcagat ggagacatat ttatagtcta tagtctgtct     900
gggaagctga ctgccagaca gggcagtttg tcatctttac ctagctgaca catctttttc     960
catggcttgc taccgatagg cattgaagcc tagcaactgt tacttcccac gcatgctatc    1020
ttccaggact tcctgagaaa tgcttgctta cagttcaaat tctgtttcac tttatgtttg    1080
agatctcggt atatcttcgg attaggttga atttgcctgt tgggtctgga atataccatt    1140
tttcccaaac atcagtatat gaagcagtcc ttccccatgg cttcaaatgt ccattccaat    1200
ggagtaactt ggcagccttt acaaactgag gtgaatatcg ttttccagca ctggaaccaa    1260
ggtggcggac attccacata ggatcgatgg tagagtgctg ttgataaaat acgataagca    1320
gaggaggtgt tgtgatgcta ccagccaggg ttctgctata cagtccctct cttggtggga    1380
```

```
cagaaaacaa atgtttgtta gtgaaaagta ctgactaact cctgttagtc aagactctag    1440
gaattgaaat acaacagttt ttcacagcta ggccagttac atacttactc tacattgagt    1500
ttcatccatt tttccagttg gttagttata ttctgtcgtt tccattccgt caggtttgca    1560
acaaaaactc caggattaaa tgagcaagtg ctggctttca tggaaagctt acgaattctt    1620
tcctttttat agtcaagata gccaatgtaa ttgtactggt ttcctgctcc acggatgaca    1680
actttagtag aggctgaatc acaatcttct gaaaatgcag ctgcatgtcc tggcttcagt    1740
gctgtattgt aaagggcaag aatatcacct tgcacaatta catcatcatc catgtatatg    1800
gccttctttg cgctgggaac cagaattggc aagtagaacc ttgcaaaggt taaaggtttc    1860
atggattccc cctggtcagg atcctccttt acttttcctt ccaaaagttt agggtcaaaa    1920
ttgacaattt tgtatctgat gcttttcagg gaatcactgt tgagccagga ccggagatgg    1980
tctgctgtat tgttgagagt aacaatgtag aaaatcacat tggagcgagt gttgtgctga    2040
atgctgttta tagctgcaat ggccccccca gcctgtctt cagatgcagc gatgaccaca     2100
ggaatctcct cttgtctccc atctactgca tgtcggagag catttgggac aaagtctata    2160
ggttgaggcc ctacaattcc tgaatctgta acctcattcc ttaacaaact gctcaagctg    2220
aggaagttat ggtgcaaaac cagtaagaag agagcaacag ccaggaccaa gatgatgatg    2280
tttactttac ggaatgacat ctttttcttc tgtcatataa atattagttt ttaacccctt    2340
tcatctggct ggctccccac ttggcattca aaggtcaagg tagcctcctc ccaaactccc    2400
acgttgagct gcacctcccc tgagctccca catctgggcc tccctctccc cagggctaat    2460
ccagctgtca tgtatttctg gcgtgatgtg gctgtctccc ttgacacgct ctgggctctt    2520
ccaaggcaac agcctggtct tggtaacaac cgtgtcctcg gtctgctgta ctttgaagtg    2580
atcggaaagt gatgtgacgc tccggggatc ccaccaggct cagagacacc cctggttagg    2640
gctccgacaa gtcgttcccc tcaaaggctc gccgcggccg cccttactgc aggcgatgga    2700
ggagatgcgg atgcagcccg cgccccgacc cgccctgcca gctcagcgcc cgcgccgcag    2760
gccccggagc ccagcccgtt gtctggccgc ccgcgttccc tgcacgctgg gccgagcaca    2820
cttgccctct agctccgtgg cagccgcgca gccccactac gcccagccag cccgcagcgg    2880
taaccgctag agcgtcgcgc caagcaggcg cgcggggcag ccctgccgcc ggggtcctcg    2940
cagggaaaaa ggccgtcgcc atggagacgc ggggggccgg cggcgnttgg cgccanagaa    3000
tactgtcaag gacagttttc gggacggggg a                                    3031
```

```
     <400> 2979
cggaatacta aaaggtccag ggcagaaccc tgagaaagat taacatcttg gggatgagca     60
aaggagaagc cagagtagtg gaaaggaaat gacgagaacg tagtattttc tttttttctg    120
agacggagtc tcgctctgtc gcccaggctg gagtgcagtg gcgcgatctc cgctcactgc    180
aagctccgcc tcccgggctc acgccattct cctgcctcag cctcccaagt agctgggact    240
acaggtgccc gccacctcgc ccggctaatg tttctatttt ttagtagaga tggggtttca    300
ccatgttggc caggatggtc tcgctctcct gacctcgtga tcccccgacc tcagcctccc    360
aaagtgctgg gattacaggc gtgagcccct ggagattttt tttttttttt tttgagatgg    420
agtctcgctc tgtcgcccag gctggactgc ggactgcagt ggcgcaatct cggctcactg    480
caagctccgc ctcccgggtt cacgccattc tcctgcctca gcctccgag tagctgggac     540
```

```
tacaggcgcc cgccaccgcg cccggctaat tttttgtatt tttagtagag acggggtttc      600
accgtgttag ccaggatggt ctcgatctcc tgacctcatg atccacccgc ctcggcctcc      660
caaagtgctg ggattacagg cgtgagccac cgcacctggc cagcgtttat ctttaaatgt      720
gccttggacc tggcccctgg ctctttggga gggagagtcc ttggcaggcc ccgttgcctc      780
caccccacca gtgcaccttg gctcctggtc actgcccacc ctccctgccc gggcaggaat      840
tcttacaggc cctacactcc tgaagggaaa tcaggctggt cctggggcag gcagcctctc      900
agagctgttg agaattgagc aatctccttg tgctctttca agctgttctt ttctttggtt      960
cacactgagc aagggctggt tgctccgata gggagaagac gtgaggagtg gcatttactg     1020
tgattgagca cagggcctgt ggactctccc attcacgcag ccacatttcc caaaaagaag     1080
tggtcctgct ccccacccc cgacccccac tgcagcgcca cctgccttta tctgtacttg     1140
gagggacagc gcacaggctg tggctggcta ccccaggtgg ctccacccag ctctcagaag     1200
ttcacctgct gcactcagag gccgtttact tgaggtttga tatttatctc caaaggaagg     1260
gctgccccga ctggcctgga ccctccaggg agttcagcaa gccggaaatg cgtgtctgct     1320
gctctcctgg cccctgggcc acctgcttct gtggccctgg gattggggag ccagggctga     1380
gggcctgtag ggcccctgt ctgtgcctct agaggccctg agccacctcc tgcagtgttt     1440
tagatcccat aagcaagaga cagaattgtg catggatggt gagaaaacat gaagctttt     1500
atttgtaaac agaaaatggc agggctcact gtgtggggct ggggacagcg ctaggcctgc     1560
tttaggccgt gcaccccaac ctggggtgtt ccaccaagag gggtacagtg gcctccactg     1620
tgagtatgtg gccatcctct ggctcctgat tgctgagttc ctgattgctg tctttgcgta     1680
acttaggaac cccgatgaag agcccgtgct catagctccg ttcctgacat gttcaggaac     1740
gcctctgttg aggtttttct ctttggttct ggaattcctg ggtccctttg acccctgatg     1800
cgtttgtttt gggtgttgat gagcactgga gctgcttccc cacaggatg gggcattggg     1860
gagattccga cacagcaggg ccctcaccca ggaggctgct gtgggtgctg gagcggttgc     1920
ttccatggag ctggattcc tctcatttgg ggctgtagga aggggtcttt cctctctgtg     1980
ctaacagttg tttgtttaaa aagaaaggct gtttaaacct ttcaaactta aaacttcttt     2040
ttttcttttgg agatggagtc tcaccctgtc tcctcccagg ttcaagtgat tgtcatgcct     2100
cagcctcctg aatagctgag attacaggca catgctacca tgcccagcta attttttgtag     2160
ttttagtaga dacggtgata tggtttggct gtgtccccac cccaatctca acttgaattg     2220
tatctccaag aatttccatg tgttgtggga gggacccagg ggaggcaatt gaatcatcgg     2280
gctggtcttt tctgtgctat tctcgtgata gtgagtaagt ctcatgcgat ctgataggtt     2340
tattaggggt ttctgctttt gcttcctcct cattttttct cttgccgctg ccatgtaaaa     2400
agtgcctttc accaccgcc atgattctga ggcttcccca gccatgtgga actgtaagtc     2460
caattaaacc tcttttgtt cccagtttcg ggtatatctt cttcagcagc gtgaaaatgg     2520
agtgcacaca cacgtcagca ctgtgggcgc acacacctgc actcacacat tcatcaggac     2580
ccatgggcac acgtgcacac acacgtcagt cctgtgggtg cacacacctg cactcacaca     2640
ttcatcagga cccatgggca cacgtgcaca cacgtcagca ccgtgagcgc acacacctgc     2700
actcacgcac acacctgcac tcacgcactc aggaccgacg gacatacgtg cacacacaca     2760
tcagcaccgt gggcgcacac acctgcactc aacgcactcg tcaggaccca cgggcagatg     2820
tacacacatg caccagcacc cgtggacacg tgcacgcaca catcagcacc catgggcata     2880
catggatgca cacatcagta ccatgggcac acacacatgc acccactccc gatggcttcg     2940
gcttgctggg tgcctgcttc gccctcgggt gagcaagtct ggaggcaggc acttgggggtg     3000
gggccacagt atggttctta ggagcccagt gtccctgga cccacttgct cccagccttg     3060
ggtcccaaag tgctgctccc actggtctct gtgccccacc catcatgggc agggctgtct     3120
gaacagggca gagtcacgag tgatgcaagg gtggggtgtg gaggccttgc ctagaggcag     3180
cagccagctc tggcttggct gggccttacc ttcactgtcc tgctgtgaga cgcaggagcc     3240
ctgggggagg acggcagtct gtatcagggc agtggtgaaa ctgcagattc ctaaatgtga     3300
tctggagacg actcttgctg gagaaatcta cccaggtccc ttgggtctgt ccctcccttc     3360
accctccaca gtcagggaca ggctgcgtgg tgtgcctccc catctgtgcg tggcctcagc     3420
gcagcaggcc tgtcctgccc attgctaaag gtagagccg gcagattcat tgtgtggtga     3480
gggcttcccc agacccacca actcctgtgt cttcccatgg tgagaagggt ggggtctctc     3540
tggggccttt ttttttttag gaagtcactg atgccactca ggtgggtgcc cagctcccca     3600
cctgatctct ggagtggccc cttctgctgg aggctgcccc aggctggatg ccgtggcctg     3660
cagaccccc ttcttgcagt ccctgggcag gcagcaccca tgcgcacacg tgcacacagg     3720
ccgtgagcac tgccctgtga gccaggtggt ggtggggggt gttggggcta aggtttggtt     3780
agggcccgag tgcttgcgca ccccccatc caatttccca tggtgctggg atgctgccgc     3840
ctcctggacc ctggcgttga agtgccacct tcatctccct ccccagacag taagctccag     3900
acaagggcag ctgtggccg tcactctggc cagctgctcg ggggcttggt ggctgctggg     3960
```

1784

```
tggtcgcctg gactctgccc tcctgtctcc tggtgtcccg gaggggcctt gctgggctgg    4020
gccctccacc gccccattgg gcgcctgact ctcagggcgc agtcagttct ttggggatgg    4080
ccctgatctc tgagcgggac tgcctctggc ctttcttctg catcccctac tgaacagcag    4140
cctgctagac gccctgagga ggcaggctga ggggtggaag gggcgtggcc gtgcccagca    4200
gagaccaccc tctgatgacg gtgggcgtcc tttccagccc ctctcggggc atcgcttcat    4260
cccttccccc atttccttcc tggccctgct ctccaagtct tgtgtgtgtg gtggggcctg    4320
gcttccctcc cggcctctcg cctgttcccg cccatccctc tctggttctc tcaggcctcc    4380
tctgggcttg ccaggaatgt aggggaatta ggggggaggg gacacaggaa atgcctcccc    4440
tcctctgaca acagctccag ctgcaggggg agggggggagg ggagagcaga gtgggtgaga   4500
cgagggaggg ctgaaggggg gagtcggctt ggggggagag tgttctcctg cccacccagg    4560
cactgggcgt ggcccagccc cacagacaga acagttcttt cttccttatt ttatttttta    4620
ttagagacag ggtctcactc tgtcgcccag gctggagtgc agtcgtgtga ttggcctcaa    4680
gcgattctcc cacctcagcc ttccaaagca ctgggattac agcagtgagc cagtgtgccc    4740
agcctcttcc taagtttaca ccagtgtggg catccagtga ggggaactgg cctgtgatgc    4800
ggtggtcctt gtgacatgtc aggcagtttt agagtagggt ttgttaaaac atgggttaaa    4860
ttgggcccca cccccagccc tccactcctc agctactcag gagaagcgcg aggcatgggt    4920
gcgcgaaaat tctgagtctg ccttccacct gaaccccctc tggaaggtct gaccaccggc    4980
cgggcgcggt ggctcacgcc tgtaatccca gcactttggg aggccgaggc gggcggatca    5040
cgaggtcagg agatcgagac catcctggct aacacagtga aaccccgtct ctactaaaaa    5100
tacaaaaaat tagccgggcg tggtggcggg cgcctgtagt cccagctact tgggaggctg    5160
aggcaggaga atggcgtgaa cccgggaggc ggagcttgca gtgagccgag atcccgccac    5220
tgcactccag cctgggcgac agagcgagac tccatctcaa aaaaaaaa                  5268
```


        <210> 2980
        <211> 5654
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1110)
        <223> similar to gi4589530 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 2980
```
ggagcgacgc cgctcgggtc agtcggcggc cggactggga agatggacgc agctactctg      60
acctacgaca ctctccggtt tgctgagttt gaagattttc ctgagacctc agagcccgtt     120
tggatactgg gtagaaaata cagcattttc acagaaaagg acgagatctt gtctgatgtg     180
gcatctagac tttggtttac atacaggaaa aactttccag ccattggggg gacaggcccc     240
acctcggaca caggctgggg ctgcatgctg cggtgtggac agatgatctt tgcccaagcc     300
ctggtgtgcc ggcacctagg ccgagattgg aggtggacac aaaggaagag gcagccagac     360
agctacttca gcgtcctcaa cgcattcatc gacaggaagg acagttacta ctccattcac     420
cagatagcgc aaatgggagt tggcgaaggc aagtccatag gccagtggta cgggcccaac     480
actgtcgccc aggtcctgaa gaagcttgct gtcttcgata cgtggagctc cttggcggtc     540
cacattgcaa tggacaacac tgttgtgatg gaggaaatca gaaggttgtg caggaccagc     600
gttccctgtg caggcgccac tgcgtttcct gcagattccg accggcactg caacggattc     660
cctgccggag ctgaggtcac caacaggccg tcgccatgga gaccccctggt acttctcatt     720
cccctgcgcc tggggctcac ggacatcaac gaggcctacg tggagacgct gaagcactgc     780
ttcatggatg ccccagtccc tgggcgtcat cggagggaag cccaacagcg cccacttatt     840
tcatcggcta agttgggtga ggagctcatc tacctggacc cccacaccac gcagccagcc     900
```

1785

```
gtggagccca ctgatggctg cttcatcccg gacgagagct tccactgcca gcacccgccg     960
tgccgcatga gcatcgcgga gcttgacccg tccatcgctg tggtacgtgg cggccacctg    1020
agcacacagg catttggtgc tgaatgctgt ttgggaatga cgaggaaaac tttcggattt    1080
ttgcgttttt ttttcagcat gttgggataa gtactgtgtt cacgtggttg ggaatctgaa    1140
gggtataaga gccggaactg tgtccttgca ccctcacgtc cctcccccag gcaccacctc    1200
ctgtgcagcc ttcatggcct tcgagtggcc cagagagcgt gtgtctggat gtgagcgtgt    1260
gtgggcgcgt gctgagtgtg catggatgag tgtgagccat ggtgagtgtg tcccctcac     1320
acctacattt aaacacacgg gcggcccctc cacccacccc tgcaccacct cgtcacacc     1380
cacatttaaa cacggcggc ccctccaccc acccactcct gcaccacctt ttgttttccg     1440
gaggctctga cttgacctct ctgggggatt tcctaagaag gagcttccct gttttttccat    1500
tttgattacc tagttgtgat ttttggtgtg tgatttatgc agacctgcct gccctcaaat    1560
atatttgatg gggaaagagg ccaaaaaacc cccctagaaa tcatgaatga cggtgacatg    1620
ctcagggaag cagttaaccg aatcgggggc tctgttgtgg atgctccgcc ccatttagga    1680
ggaagaaggc agatctgggc ctgaaatggg acggtctctg agctgtggcg cagccccaga    1740
gtgcacacca cgctccatgc acctcctggg cagggtggca gtagtgggga acatgggctg    1800
gagctctgtg gctcacactt tttgtttgtt tgtttgtttt tgagacggag tctcactctg    1860
tcgcccaggc tggagtgcag tggcgcgatc tcggctcact gcaagctccg cctcccaggt    1920
tcacgccatt ctcctgcctc agcctctgga ttagctggga ctacaggcac ccgccaccac    1980
gcctggctaa ttttctgtat ttttaataga cgggttttt cactgtgtta gccaggatgg    2040
tcttgatctc ctgacctcat gatccaccca cctcggcctc ccaaagtgct gggattacag    2100
gcgtgagcca ctgcgcgcag cctggcgcac acttcttacc agaacctagt cacgaattcc    2160
tcgtcgaact agaattaggt atgtttgtta ctgtaaacgc agcttggtgg cttacagtga    2220
ttggcactct aacagtcagg tcaggctaga gagccagcca ccgcagacag aggagtggac    2280
gcgtgaacgt tgagttgaga ccaaaggggc cacctggtgg gataactgtc ctcacccgtg    2340
aggaggagga atgtcccctg tccccggggg agagtgctcc tacaccagcg ccgaggcggc    2400
agaatggtgt cttcagggga agagagtgcc cagtttgagc ttctccccccc atttcgtttc    2460
ttttgtgtt aacatctgcg catctggcag cgttgagaat tcctagtgac tgtcattaca    2520
ggcggcagct ttaaggatgt gattgccggt gacccttggc cggtcccctg tctcctggct    2580
cctcagcagg aggctccctg tgtcacggtg tccttgggca gttctcggtg gcctttgccg    2640
ccaagcttcc agggagctgc tgggcgaagg ctgagaccca gcggccctgt ctcacagtca    2700
cagagagaag agctccccac ttggccctaa ctcataacct gccccaatcc cggaacactc    2760
ggtgaggttt gagagatgca caccacgtaa catctcgtgg gcgaatcaag gcacagcaac    2820
gcagtggagc ctgaggggag ccgggcactg gtgcagggga ccatgcacag ggcaccctcg    2880
gagctccatt cccggccaca ggagccaagg caggctggaa tgtccagcac ctgcatgctg    2940
ggggcctctg ctgcgccact ggcagtggga atggaagccc ccacctctta tccgactgca    3000
gatggggtg tcgtgttctg ctcatcgtca tttcgttta ggggttttc tgtaagactg    3060
aagatgactt cagtgattgg tgccagcaag tcaaaaagct gtctctgctt ggaggtgccc    3120
tgcccatgtt tgagctggtg gagcagcagc cttcacatct ggcctgcccc gacgtcctga    3180
acctgtccct aggtgagagc tgccaagtcc aggtggggtc cctcggaggt acgatctgtg    3240
cccttgcttc cccagtcctg gcccccttgg ttttgaccat taaggtgtgt gtgagcctga    3300
gccgtgagca cttggcagtg gttcgcctgt gagaccaggt atggagtgga gcgtcccctc    3360
ctccaagctt gcgcccagca gcccaggacc cacctcgtct tccccaccag cgctgcctgc    3420
cggggcgctg tggagctggg cgtgctacca tggagtcctc aggggtctgg agcagacaga    3480
acatgcaggc tctgtggtga cgcagtcctg ggtgggggac tggttcactt gggcaccact    3540
ggccatgggt ggcgtagacc cctcggacca tggccagcgt gccgcaggag ccggcctggg    3600
ctcgtgcagt gaagtgagtg gccgtgagcg cgtcctcctc atctctgtct ccctgtggga    3660
aactctacaa acaaggcaat ggcaatggaa ccactcctga tgaccacgag ggtcagacgc    3720
gggacagagg cccctcaggc ctgagattgt gccggccgcc ccctgccctc ctcaccctgc    3780
cctgctcctc ttctctgctc cctcccccca tattcgcagg tctgcacaac ccccggacct    3840
gttcacaccc gcatggggac agctgtctgt gggctgcaga gcaggcactg ctcagtctgc    3900
cccacgccaa gggcccttga ctcacaccca ggtggcccac ccaagatgcc tgatgcgcta    3960
tgtcctgttc cttctagatt cttctgatgt agagcgactg gaaagattct tcgactcaga    4020
agatgaagac tttgaaatcc tgtccctttg aaaatcctgg ggtcgggggt ggcacctgtg    4080
agagcctggg gctcctggtg ccgctgcgtt tcatccatcc cgcccgctcg cctgccgagg    4140
gctgcgcccc gtgctgcctc cccccagagg gccacccgct gtgctcgtgg actgaggctg    4200
cgctgcccgg gaggccttac tgcttggtgt cagactgccc agctcagagt gcccgtcagg    4260
gcctgtgcat ccgcacgcgg agccgtctgt taggagcttc cagagcgttc tctcgacact    4320
```

```
gccagccccg tgttagcacc tgggcctcag tcccacttgc tcccaggcgc cggttctgtg    4380
gttggtttgg aattaaaagtc ctgtttgaag ttgtcagaca cagacatgaa tttctggggc    4440
gctccctgag tcagtctcag aagacctgtg caggctggcg tgagaggagc ggcagccaca    4500
ctgcggcccc acgcccaagg actgggctgc tctcgagggg ggcgcgccca ccgctgtgtc    4560
ctctctgccc agcctggctt accaagggct acctcagtgg gagatgaggt tggaggaacg    4620
aaggcgaggt tcctccttgc tttggggaga aaagtattca ggaagtgggt gtgtgggaaa    4680
cctgaagatg gcgtgcacag gacacagcgt ggtcggcctg ggcagaaggg cggctggctg    4740
tcctggagct gctgctggag cctgccctca gagtgtccct ttccagtgct gtggcattct    4800
gtggcagctt ccccaggtgt ggtgacgggg ggggggcggg gcctccacct gtgacagcca    4860
ggcttgaggg tggacggcgt gcctctccca ggagccttcc ccatgtcctt gccttgctga    4920
gaattgccct cccatgccgc tgaggtgtta ggtggtttag ggccaaaagg ggaaaaccac    4980
ttgagtcttg tggtgtgtgg tgggcagaca ccacagggtg gcatcacctg gtggcatttc    5040
cagaacctca gccccgattc cagcacccac caccgcctga ccctgtgtaa cctgctgtcc    5100
cgggtcccag agtgcactct gccccactgc tctgctgcct gtcctgggaa agtagctttg    5160
ccccactagg aaatgtaaac aggagggctt ggggagcgtg ggcacttttc tcatgagcag    5220
ctactgcggc gttggcagga ctcgctgctg ctgctgctgc tgcttgtgta ggtcggggag    5280
ccggagatcc ccgaggacgc gcgccggaca gtcggcactg accggcccac ctggtagcag    5340
aggacaccccc cagcccccca agcattgaag acatagtgta tttcctcgta tcctttctcc    5400
cttgggtgta gttggggtgg ggaagcaggg aaggctggtg cgatctccat tccttgggct    5460
ccgcgtccga gttcatggtg cgccgctgtg ctgggagctg cagtgggaat gtgtgggaca    5520
ccttgaccaa aggggagctt tgtctcgtgt gttttgaaaa aggcttaatg aagagaatgt    5580
tgttcattct tagtagtata gtttgcaatt cttaatggca aataataagt ttcagtagaa    5640
acccaaaaaa aaaa                                                      5654
```

<210> 2981
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)...(353)
<223> similar to gi1619936 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2981
```
ggcacgagga aggctcaata ttgtcaaggt gtctcttttt cccaacttga tcaatagagt      60
caacataatc ctgattaaaa tcctagcagt tggtttcttg gatattgaaa actgactcta     120
aagcttatat agaaaaagac ccagaatagc taacacagta ttaaaagagg aacaaagctg     180
gaggactgat accactcagt ttgaagtttt gctataaagc tacagtaatc aagacaatgt     240
catattggtg aaagaacaga catatgggtc agtggaacag agaacccaga aatagaccca     300
cacaaataca atcaactgat ttttaacaaa ggggcaaagg taattcagta gag            353
```

<210> 2982
<211> 1956
<212> DNA
```

```
     <400> 2982
tttttttttt ttgagacaga gtctcactct gttgccccgg ctggagtgca gcggcgtgat   60
ctcagctcac tgcaacctcc gcctcccaag ttcaagcgat tgtcctgcct cagcttccca  120
agtggctggg attacaggcg cccaccacta tgcccagcta attttttgta tttttagtac  180
agacggggtt tcaccatgtt ggtcaggctg gtctcgaact cctgacctca tgatttgcct  240
gcctttgcct cccaaagtgc tgggattaca ggcgtgagcc actgggccca gcctaattta  300
ttacttttta agcgatagcc gtactgagcc gccccctgaa ggcggctgcc aggtcttgcc  360
ccaggcacct gggactctgt ttgcaggccc tgccctctgg gctgagaagg atgcactttg  420
gacaagtcat ctgtgtttgt gttttccagt ttttctgtac tttttaagtg ttttgtgtta  480
cctggtctca ttcccctccc cacacctacc catttgaggg gatggagttg aagtcacctg  540
gtcacctgta ccggcccagt tcggctacaa cctggagtgt ccgtaaacaa ttcctctcac  600
ccacaaaaca atgtaatccc agcgatggac tggattctga aggccacttc ccaccatcat  660
agctgccatg cccaggcagt gcctgctcta tatatagagt ctgcctccaa tcctgctggc  720
ttcagcctgg agaagggata tgggagctgg agctttgatg gatgaatagg tgttcaccgg  780
atctgggcag aggggtcatc cgctccccag gtgggcactg ataaaggaag gtacaggcct  840
cacctggaac tgccaaggca gcctccagaa atgctcggct gtctcggggc acgctccagt  900
atgccagtcc tgcgggatta cgtccagcta cttccagaaa cactcagtgt cccctcccct  960
caggctctgc cttggcctgg ccttgtccag tctaccctgg acaagatgcc gtgtgtttga 1020
ggcccagcag agtaagccct tggccgtgat gtgtctgaaa cacctgttag gggttccctc 1080
catatgtcag agcctctctg ggatgaagtt caagccagaa aacccagtcg aggctcaagt 1140
ttgaatttca gcttcactgt gtggctctgg gaaaatggct ttcccactct gtgcctcagt 1200
ttccttgtgt ttacaagact aatcccattg actgtttatt aagcacctac tgtgtgccaa 1260
gcgcttttac gtggcttctc cctcagccag ccttgagaag gctggaggtg gtgtcatcac 1320
ctccatttta cagacaaagc agctgagacc ccagcgaggg cgggagacct gtcccacgat 1380
cacccagcag gagtcgtggc agaacggagc atcagccaga ccctgttgtg ggcgttgtca 1440
tcaagggagc ttgaatggag ggtctggtgt cagatacagc cgactccagc cccagctcat 1500
cccccatgat gctgtgtgac ccactgggca ctctggtgag ggagctttcc agacatcaac 1560
agcccactct gcttcccttt ctgagtcccc tgtccagcac tgcctagtgt tggagggtag 1620
accaaggctg tgcatgattc accccctcct tccatcctgg agctggcagt gaataaaagc 1680
ccgtatttac aaaaaaaaaa aaaggggggg cccgtttaaa agaacccttg ggggcccaa 1740
atttaacgcg ggctggcaag gaaaaatttt tctccttaag gggggccgta taaaaacctg 1800
ggcccggccc gtgttttaac aacgccgaaa ggggaaaatc tcttacctgg gaattttgga 1860
aaagaaccct tattttgggg ggggaacata gtggcccaac ctccctccaa aaattaaagg 1920
ctttagggaa aaaaaaaatt tttaaggggt ataggg                           1956
```

<400> 2983
```
tacagaagca gacacatgta agaattcacc attagatgaa ttagaagaag gagaaattag    60
aagtgatagt gaaacatcta aaccacaaga aagttttgaa aaaaattcca aacgtagagt   120
gtcagctgat gtgcggaagt caaagactat cccacgacgt gggaaaagta ctgtgtgttt   180
agataaagac agtaggaaaa cacatgtaag aatccatcag accaataaca aatggaataa   240
aagacctgat aaatctagta gatcttcaaa aacagagaag aaagataaag tgatgagcac   300
ttccagcttg gaaaaaatag ttccaattat tgctgtaccc tcttctgaac aagagatcat   360
gcacatgtta cgaatgataa gaaaacatgt aagaaaaaat tatatgaaat tcaaggcaaa   420
attttcatta atacaatttc acagaattat tgagtcagca attttgagtt ttacatcttt   480
aattaaacat ctcaacttac acaaaatctc taagtcagtg actaccttac agaagaatct   540
ctgtgatatt atagagtcta aacttaagca agttaaaaag aatggcatag ttgatcgttt   600
atttgaacag caactaccag atatgaaaaa aaaattgtcg gaagtttgta gatgaccaac   660
ttgattattt gtttgcaaag cttaggaaaa tcttagtatg tgattccaaa agctttggaa   720
gagatagtga tgaaggcaaa cttgaaaaaa caagtaaaca gaatgcacag tattcaaata   780
ggtcagaaaa gggagtgtgg gacaactcca acagaggaat tgctggaaag gaaaaattat   840
ccaaaatcag gaaggaccct gttcattata aggtctttag gtggggggtg ttaaaaaatc   900
tgaggaaaat tatcaagacc aaaataactc cagtattaac actgtaaagc atgacattaa   960
aaaaaatttt aacatctgct ttgataatat aaagaactct caatccgaag agcgctcctt  1020
ggaagtacac tgtccaagca ccccaaagtc agaaaaaaac gaaggaagca gcatagagga  1080
tgcacagaca tcccagcatg caactttgaa gccagaacga agtttcgaga ttcttaccga  1140
acagcaagca tcgagcctta cttttaattt agtgagtgat gcacaaatgg gtgaaatatt  1200
taaaagtttg ttgcaaggtt ctgatctttt aaacagcagt gttaactgta ctgaaaaaag  1260
tgagtgggag ttaaagactc cagagaagca gctgctagag actcttaagt gcgagtctat  1320
accagcttgt acaacagaag agctagtttc aggggtggct tctccatgtc ctaaaatgat  1380
tagtgatgat aattggtcat tattatcatc tgaaaaaggt ccatctctgt cttcagggct  1440
ttcattgccg gttcatcctg atgtgttgga tgaaagttgt atgtttgaag tgtctactaa  1500
cctacctttá agtaaagata atgtgtgtag tgtagaaaag agcaagccct gcgtttcttc  1560
catacttctt gaagatctag cagtctcttt aacagtacca tcgcctctga agtcagatgg  1620
tcatctcagt tttttaaagc ctgatatgtc gtccagttca actcctgaag aagtcattag  1680
tgctcatttt agtgaagatg ccttacttga gggaagaggg attgcattct tagcaagata  1740
tttcattta gctctggagt ctgataattc aagcagtaaa tcaagttgtt cttcttccct  1800
ggacaagccg atcctgttgc tccaggcttt cagtaccacc ctaatctacc tatgcatgcc  1860
gtcataatgg aaaagtccaa tgatcatttc attgtgaaaa tacgacgtgc gacgccgtct  1920
acctcttctg gccttaaaca gagtatgatg cctgatgaat tattgacatc tttgcccaga  1980
catggaaagg aagctgatga aggaccagag aaagaatata tttcatgtca gaacacagtt  2040
tttaaatctg tggaggaatt ggaaaactcc aacaaaaatg ttgatggcag caagtcaact  2100
catgaagaac agagctctat gatacaaaca caggttcctg atatatatga atttcttaaa  2160
gatgcttcag ataagatggg tcatagtgat gaagtggctg atgaatgttt caaattgcat  2220
caagtatggg aaacaaaagt gcctgaaagc attgaagaat tgccttcaat ggaagaaatc  2280
tcacactctg ttggggaaca tcttccaaac acatacgtag atctaacgaa agatccagtc  2340
actgaaacca aaaacttggg ggaattcata gaagtaacag ttttacatat tgatcagttg  2400
ggatgttctg gaggcaattt aaatcagagt gctcaaatat tagacaattc tttgcaggct  2460
gatactgtag gtgcttttat tgatttgaca caagatgctt caagtgaggc taaaagtgaa  2520
ggtaatcatc ctgcattagc tgtggaagac ttgggatgtg gggtgataca ggtagatgaa  2580
gataattgta aggaagaaaa ggcacaagtg gcaaacaggc ctttaaaatg cattgttgag  2640
gaaacctata tcgacttgac cacagaatct cccagttcat gtgaagtaaa aaaagatgag  2700
ttaaaatcag agccaggatc aaattgtgat aactcggagt tgcctgggac tttgcataat  2760
tctcacaaaa agagaagaaa catttctgat ctaaatcatc ctcataaaaa acaaagaaag  2820
gaaacagact taactaataa ggaaaagacc aagaaaccta cccaagattc ttgtgagaat  2880
actgaagctc accaaaagaa agccagtaag aagaaggccc ctcctgtgac taaagatccc  2940
```

```
tcatcattaa aggcaacccc agggattaag gattcatcag cagcacttgc cacttctaca   3000
agtctttctg caaaaaatgt tattaaaaag aagggagaaa ttatcatttt atggacaaga   3060
aatgatgacc gggaaatttt attggagtgt cagaaaagag ggccatcatt taaaacattt   3120
gcatatttag ccgccaagtt ggataaaaat ccaaatcagg tctcagaaag attccagcag   3180
ctaatgaagc tctttgaaaa gtcaaaatgc aggtagttaa tggttacact acaggagact   3240
agtaaaataa atgtttgaca ctgtagttgt gcagttaatg gcctgttagt cattgaagat   3300
gtgaatagtg ggtgagagac atccagttga gttcctgctt cagtcacagg ttggaggatg   3360
                                                                    3390
attgctcgag caggcatcta aggtgacctc
```

```
<210> 2984
<211> 1079
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1080)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (464)...(642)
<223> similar to gi1890050 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
    <400> 2984
cacctgccta ggactctcac agtgctggga ttgcaagcat gagccaccgc acccggccca     60
gtcttggtct tttgaccttt ggagtcatgc acagggaacc tcttcctttg ttctcagaga    120
gttcttgggt tcccctgaag tttgtttcaa gataaacatc cccgctgctt cacccttccc    180
tggtgtgatc cagcgtggct ttcacacgcc gtccatctcc ctcgctggcg tgtccctccc    240
agaatcaaaa ggcagacttc ccggggagat cccaggccat ggcggggagc agagccatcg    300
ggagttccct gtcaggagtc ctgccctcag atttgagagt gcagaacccc gccagccccc    360
caacttgcat gcaaaccctg gcatgtgtgc ctctttcctg agggatcgtc cataaatatc    420
accagattat ctaaaggttg ggaaaggatc catgaaccaa aatagggcaa gagccactgg    480
tcaagatgct tcccctctgc aattgcaaaa gtggagtgga ttgtgtggtg agatgaggaa    540
gtttcattct tctcgtttgt tttctcccag tacgagtatg cgttgagaca tttgtacgtg    600
ctggtcaacc tttgtgagaa gccgtatccg cttcacaggt aactaatgca gcggtgacgc    660
ttgaaaggtc gatgtcattc tgaaagcaga aggggctgcc atcctcttct gcaagtgggc    720
agtttcactt ctgccaggag ctccctccag ctttcctcta cagccatttg tcagcagggt    780
ccagaagcca cgttctcagt gacagctgct gggcgggcct gtcataactg cctgcctgcc    840
gcatgtgggt ttgcgtttgt ctgcctttct tcagagttga cgcggttcac caagttctcc    900
ttcctgtctc tcgcaggata aaattgtcca tggaccacgt gtgccttggt cactactgaa    960
gagctggctc ctggaagctt ttccaaagtg tgagcgcccc caaccgactg tgtgctgatc   1020
aagagactgg agaaggtgga antgaagaag tctccgctgg ctcnggcccc tcctgggga    1079
```

```
    <210> 2985
```

<211> 985
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(986)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (985)...(377)
<223> similar to gi3776056 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2985
tttttttttt ttgcatattt accacatgtc atgtatttct gaacaaaggg aaagagatac   60
aaattcctac cattaaactg gcttggttgt tgtttgggtt ggagtagcct gtgggggcct   120
tggggaaggg tgtcgtttct ttctagtagt ctcatgtcgc tttaggtcag ctgggctggc   180
ttacacgcgc tgtgcggtct tcatggagat gggagctctg tgtgtcagca caggaagtgg   240
tctcccagcg ttcagcctga agcagcccaa gtcctgtagg tgcttgcccg tctctaaacc   300
ccccagaaac atcagtgcaa gaaggaagag actgctggca aagatgactc ccaaggctgt   360
tctccgctct ggtgggacaa cctgggtgct ggccccaagg ggctcctcca gagagatgtg   420
tgtgacctgg caggtgtaag tggcacctgc agagccaggt tctgcggtga gagaggagga   480
gatgctgtag gtgcctgcca cgctttgcct gaggctggag aaggaggcac cagagacttg   540
ggctggggat ccacccagct cctctcgggt ccacgtcacc accacatcca gagggtaata   600
gccagcaatg tcgcagatga gggtgggcag cagagcttcg tttgccaagc tcagtcgtac   660
tttaggggaa gcttggatgt tgagctggat gatctgctga gctcggtaca gagaggtggt   720
gatctggcaa atgtaggtcc cctcgtcctg tatagtgagg ccgggcaggg tgagggaggc   780
atccctggcc atgcccagtt gtgcaggctc cagggtagcg cccttccgca cagcctgccc   840
ctgccctgcg gtccagctgt acaccaactg acccctgccc ttgtgctgca gtcgccactc   900
cacactgatg aggtccaagc ccggtgccat gggaattcca cctcactgcc tagggtcttc   960
gatagggttt cgaanggccg ggccc   985

<210> 2986
<211> 1719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1721)...(1100)
<223> similar to gi1754969 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 2986
tttttttttt ttcagacacg cacttgtggt ttattacaca cagtgatctc catctacacg   60

```
gaaatggaag gcaagcagcc aggatggagc tggttgctgg gaacacttgc tggaggtgga    120
aaagcctctc gtcagagccg tgggtgggtc ttggtggcag gccccctgct caggcccagc    180
tgggaaccag ccctgagctt tgctttgcct gcacagccca cctagagagc catttttggc    240
cagagttctg ggtgggagac ttggggccag tgagacccag actctgagtg ggaggcctgc    300
ctccctggtc caggccatgt cctatcttgt ccctctctgg gtgataatgg aaacagagac    360
aggaagtagc agtcagtcca ggctgggccc ctccatcccc gacactctgc tccctggagc    420
tgggtccaca tcacagcgat cacagagctc agccactact cctggccaga ggacatgtgc    480
tctcatggca ggctggcctc ctgaggcctc ctgaatgtgg tagagctaga ccctcgtggg    540
ggatttccac tcactgctcc ccgggcccag ccgcaagtgc tgggcgagtc ttgtccgggg    600
gccaagtctt gtccaactgc agaggcagct ggttgtggtt gagtttggag gctgatgagg    660
ccaggagcaa cagcagccgc tgttccaccc ctgggtcttc ttggataggg tgtgtcccag    720
ggactccaga gttttgcggg ggcaggttct tacagggcag taccacagct gagagtctct    780
ctgctgatca ggtgactgaa ggcccaacgt agcatctttc tagccttgcc cgagccaggt    840
gcttctacct tcatctcctt cctgggaaag cccaggccca agggtgcccc tcaggtacac    900
atctccctgg tctggcctgt ccactttccg gcagcttcac atgccggtgg ctttggggct    960
gggtgggcat actcttgaat gttaaaaggc cacaggtagc gcattccatg aaaaaagatc   1020
aatatattac tgttttgttt ttacaaaaat taaaaatgtc cacacggatc tgtacaggtg   1080
tgagctgggc ctgtgggtca cttatgccag cagccaggca caggcagccc gtcggggccc   1140
acgggacacg gctggtccag gcctggtggt cccggctcgc ccttctggcc cttcactcct   1200
ttccggccgg ggacccctcg ttctcccttc tctccacgct cgctccgatc acctttctct   1260
cctcggggtc cagggaaacc atctagtcct ggctccccgg gtcggccctt ctctcctttg   1320
gttcctggca gcccaataag gcccggtggg ccaactggcc caggcaggcc gctggggcct   1380
ctctcacccg acgcaccctt ctctcccttt gctccatcca agcccttggg accctggatt   1440
ccctggaggc ccatcgggcc tgggggggcca ggggggccag ggggccctgg ctccactatg   1500
agctgagcca ggctctcctg taggctgtca gacgccgact cccccttctc ccccttgagg   1560
ccgtcagcgc ccgggaggcc ggacaagccc atctcgcctg cttccccttt gagtcctgct   1620
ggcccaggct ctcctgggtc tcctttctgt cctttggggc ccttctctcc atcgattcct   1680
                                                                    1680
ggggcaccgg gcaatccaag ctcgccccgg acgcgtggg                          1719
```

```
<400> 2987
ttttttttttt ttattttccc ttttattcaa caccctcccc acccagtctc cccgcccccca    60
agggtccgac acgaaaggtc caggccctcc tcgggcgcga cagggagccg atccttaaaa    120
gcaaacccta caaataaata agcggggtcg ggggcggggg tctctgcagt ccagggccta    180
cggtccaacg gcagtcaggt cgaatcaatt caccagcagc gaatgctcct ccgaggggtc    240
ccttccgcag cagcagagaa ggctgcaggc cgagccgctc ccgcggcgga acttgccgga    300
ggtggggctg tcctggcact gtgcgatgta ggcctgcagc tcgctctcct ctgcgcctgc    360
gccgccggga tgcttgatgg tgtcgtaggc gccggtgatg agcgcgatga agaggctgag    420
caccatgtag atgaagaggc tgatgaagga gtaaaggtag agctgggaga agagccacac    480
caggctgctg cggccctgct ggcgcctgca tggcggcgaa cgtcacaaac atgtcgtccc    540
```

```
cattgatgag cgagaacagg cactcagaca ccatggagag tgagcggaac ttcacatgat      600
agggccccag cacgatccag ccacagaagc agtagcccag gtagatgaca gccacgcagc      660
agcagaagcg catgacgctg ggcagggcca cccgcagtgt ggcgatgagg atattgtagt      720
tgtggaagaa ggtcaggtag cggatcacgc ccacccacac cagcagcgtc gaggtgccca      780
ggaggatgct gcagacgtcg tagctcgcca agttcttggc ctcgatgccg atcttcatga      840
tggtgcccga gatggtgagc acatcgctgg tgacgagcag gatgtaccag ccattgacaa      900
attccagccg ctcccacagg ctgatgaccc gtccccgctg ccgccacatg aaccccacaa      960
actcgttttg cagcaggaag cctcgaagga gtgagcgggc gcagaggagg aaggacaggg     1020
agcaggtgag gatgaccacc acgtcaaaca ggagccggaa gctgttgtct ccgtgctgga     1080
agacactggg gtgcttacac tcctggatgt gggcctgggt ctccaggctg atggggatcc     1140
gcccactgtg tgctttgttg tcaaacgtga tcaggacgct gaaggtatag cagtccggga     1200
tctcattatt gatgaggctc tggaggttaa tggtcttcag ccggaagtgg atggtgacat     1260
tgaccagctt gtggaatttg agcgtgaggt tcttgtaact ggagctgctt tccaagaggg     1320
tgagatcgtc gctgggggggc ggaggggggcc gctcgggggg atccaccctg gatgcagtca     1380
gtaaccacca tcggatcaat gtcaaatgtg tcgttggccg ggtccacgtg gcctcggtgg     1440
tagtaccgct ggcagagagc aagccctgag ccattggtcc aagggtcacc cccaccacgg     1500
acatacgcat accggcccag tgacacgtca ggcaacgcca ggtactggtc cacagcatgg     1560
aagatggcct ggtacagctg ctcccgcgtg taggctgcga aggtgtcatc cgctccgtc       1619
```

```
<210> 2988
<211> 2193
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2196)...(872)
<223> similar to gi1835750 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


    <400> 2988
tttttttttt ttaactggca aaggcatatt tttatttaaa taaatcaatc tcacaactgt       60
aattcgaact tgaaattagc aaagtttctt tcacttctta cacataaaaa ccttaaattt      120
taactgtaat aaagtgtgaa tcctttaata acctgggttt ttaaaagggt gccacccaat      180
gggggtaatg gaaaaggggg atgttaatgt actaggcttc cctggaaaat attttaaaca      240
tttttcatac aatactaggg aaaacttccc cttcttccac gtttaggctt aatagaacaa      300
atcacatgga aagtttcata gtgggttctt ttatttataa aataatcaca ttcaagtctt      360
accagagagt agcaaagtct tcaattcctt tcctttcctt tgaagaaata atgtagagca      420
atcactcata aatccctcta attataaata aaatccaaga tattatttga caatgagatg      480
ctttatttaa acttgataca tttactatat aagaattctg tgaaaaaatg gggtatgaaa      540
ttattttgga tctgaatctt tgcattataa aatctaaccc aaaactatgt catttcactg      600
tattctgtga ctattagcag atggatgacc aaaggcaact acttcctttc ctggcaaaac      660
aagacaagtt tcagctgact tccccatggt gttacaagtt ctcctagtga agtaaaaagt      720
cccaacccct ctttctatgc atgtcatctc caggaaggta agctttggga agcacctgcg      780
ccagccctat atctgtgctt ggcatgaggt tcacacaggt tcggccttga gatgggggatg      840
ttcctctcaa ccaaacaact ctacttgaat tattccgaga ctccttggag gggtgaaact      900
tcaggcctgg gtgtctctgc agtgagatgt ctgtggttgg taaacagttc tgtagagtct      960
tgttctactg atctttcttc taggtctgac tctgggattg tagtacaacc acctggcatg     1020
accatggtct ggtggggggct gctgcatcgg tacttaggca gagacggcca cctttggata     1080
atctatcgca gagcaaggtg atatgtttct tcagttgggc tcgtgtcatt ggggtatgtc     1140
```

1793

```
agcctgcctg gtgggttcaa agcctgctgc ttagcactct tacgacagca agtctttcac    1200
atggtggaaa atggcggcat ccaccgtttc ttcccagccc aattcttgag tgtcttcttg    1260
tagcggcaga aatgccgctt ccagaatagc aacctggtca gcactaagct tctgccacag    1320
cgcgatcagc agaatcacca aatgggtggc actcttcagc ctggtgaatg actggaacag    1380
attgcccttg gttttccctc ccactgcatc ctgctagagc aattacctgc cttgtaggtt    1440
cccatcctaa caaggtgtcc caggtgttga agaggggcag gagttttatc tttgaatctt    1500
gctagtagcc ggcgttgaat ggcccgaaat tgtacagctc tctcagataa gagttcttct    1560
aattttttcac catttatccg tagctcaaaa tggatggatc caatcaactc caaaatattc    1620
cttgaaaggg gtaatagatc cccgaaaaag aacatgcaaa atctttgact ccctgttttt    1680
caaaatattc ttgaaggcga agaataagct cattggttaa tgaagcccaa agatccttca    1740
aattgttcca ctcctggaat gcgaatatcc gttgaagaag ttttggaagc aagaacagta    1800
attccgagca cctccctaag aagtgaaaac ccattacatt cacctgatca tcatctgact    1860
gactggcaaa acctgggaag agactaagaa gactgactgg agatttgttg gtatcaatag    1920
taattttgtg gcttgcagtt tttgaaggct gacctggtag gcaaattaac tttaggggaa    1980
gtctaaattt acattggata actcgcggaa tgccatcagg atttcgattc ataaattcaa    2040
aggtgaactg atcacaagtc aattctaatg gtggttgcac gtagactgat aatttggctt    2100
tttgcaatat cactctgttc tgcagtgtga ccttcaccgt gacagaaggg acaaggtcag    2160
ttcccacctc aacatcggtc gcttgagaaa ctg                                 2193
```

<210> 2989
<211> 2517
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(904)
<223> similar to gi1840045 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2989
```
ctgaacggga actatttggt tctgttggtg tcattggtgg tcattcttcc tttgtcgctg      60
tttagaaatt taggatattt gggatgtacc agtggccttt ccttgttgtg tatggtgttc     120
tttctgattg tggtcatttg caagaaattt caggttccgt gtcctgtgga agctgctttg     180
ataattaacg aaacaataaa caccacctta acacagccaa cagctcttgt acctgctttg     240
tcacataacg tgactgaaaa tgactcttgc agacctcact attttatttt caactcacag     300
actgtctatg ctgtgccaat tctgatcttt tcatttgtct gtcatcctgc tgttcttccc     360
atctatgaag aactgaaaga ccgcagccgt agaagaatga tgaatgtgtc caagatttca     420
ttttttgcta tgtttctcat gtatctgctt gccgccctct ttggatacct aacatttttac    480
gaacatgttg agtcagaatt gcttcatacc tactcttcta tcttgggaac tgatattctt     540
cttctcattg tccgtctggc tgtgttaatg gctgtgaccc tgacagtacc agtagttatt     600
ttcccaatcc ggagttctgt aactcacttg ttgtgtgcat caaaagattt cagttggtgg     660
cgtcatagtc tcattacagt gtctatcttg gcatttacca atttacttgt catctttgtc     720
ccaactatta gggatatctt tggttttatt ggtgcatctg cagcttctat gttgattttt     780
attcttcctt ctgccttcta tatcaagttg gtgaagaaag aacctatgaa atctgtacaa     840
aagattgggg ctttgttctt cctgttaagt ggtgtactgg tgatgaccgg aagcatgggc     900
cttgattgtt ttgggattgg ggtacacaat gcacctggag gtgggccatt aattggcacc     960
actcaaactc aaactcagtc catctgatgc cagtgttgag taaactcaac tactatgaaa    1020
tttcacctaa tgttttcagt ttcacttcct tttgaagtgc agattcctcg ctggttcttc    1080
tgagtgcaga ataagtgaac tattttgttt tgttttgttt ttttaagaaa cttatctgta    1140
```

1794

```
tgttagaaat gggatatgaa caacaaagcc acgagtctcg ggttaaggga agtgacaatt     1200
ttattccatt ccagagaatg gacaaactct taacttttat caagccacat gcttggctgt     1260
gtcattgttt aacttggata ttttatgatt ttacttgaat gtgcctaatg gaaccatttg     1320
atgtgagaaa caattctttt taatttacag caaaatattg aataaccatt gacaaaaaca     1380
ctattatttt ttgtaccaaa aatacttaaa gacctcagaa gcactctttt acttttaaga     1440
aattgctttt ttgaacttta ttcagaagca gttatcaata aattccataa aataatgtca     1500
ttggtattta aaaatgaata ttaatataat gaaatggttt gcctttttgt aggcataata     1560
agccaaatac ttttttaccc aaaataattt ttagagaaaa tgatgtaatg aaaaattgta     1620
ccatgaatta ggagcatagt tttttccatt taaacgtcac cattacttaa aagatgattg     1680
attattgcta taccaaatca gatgaactct gttcatcact tttcttctct gtccccaaac     1740
aatttggttc attcagactg aaatgtttgt gtcttcaact tattagaatg gaagataatg     1800
cagatatttc tgtgggaaat aaaataacta attttgaggt accaaatagt gcaattgggt     1860
aaaacagggt ttattcagtt gcatctgtct ccagtgttgt attgacagct ctgggtcttt     1920
ttttgggcca gccctttttt gacattgctt ccagcagtgg aaaatgggca tttgatggca     1980
ataggccaaa attattgtgt ccagagagta cactttttca aaatgctcac ctactggaag     2040
tgtgaattac ttgacaatgt atggcttagt tgtgttcatg ttttgtctac agtagaggtc     2100
taatccacag gttacaccta tgtttgatat gatataagtt ctctttgcgt aggccactgg     2160
gtttctcatg cagtaagctt tataaaaact catttgcact ggactgtcat ctcattcttg     2220
tacaacgtag aattacttgt ttacatccaa caaatggtta gctagggaaa acagtgcaaa     2280
ctgagtgtta gtagtcattt tgggtccaac tgcatgtcaa cccttccatt tcaatcccag     2340
ttagaaatga aaataattac tttgaaactt ggctttaaga gcacatttat cgtacgtcac     2400
agtgtatggt gaatatatta ttaaataatg tggtacttcg ctcatcaggc ataatgtcta     2460
aaatctaata tacataattc cattccttcc tggttgccac agtatcttct cccatac       2517
```


<210> 2990
<211> 2432
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)...(2320)
<223> similar to gi4589628 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2990
```
ccaggccgtg gagttaaatg ggacctgatt aacggcaaag ctaacagtaa taaatctctt        60
ccaacaccag ctgtcctgct ttcacccact aaggagccac cacctctgct tgccaaacca       120
aaactggacc ctctgaagct ccagcaactc cagaaccaaa tccgactgga gcaggaggcc       180
ggcgctcggc agcctccgcc agccccgcgc agcgcgccgc cctcgccccc cttcccgccg       240
ccgcccgcct tccccgagct cgcggcctgc acgccgcccg cgtccccgga gcccatgagc       300
gcgctggcct cccgctccgc ccccgccatg cagtcctccg gctccttcaa ctacgcgcgc       360
cccaagcagt tcatcgccgc gcagaacctc gggcccgcgt cgggccacgg cacgccggcc       420
tccagcccca gctcgtccag cctcccgtcg cccatgtccc cgacgccgag gcagttcggc       480
cgcgcccccg tgccgccctt cgcgcagccc ttcggcgctg agcccgaggc cccgtggggc       540
tcctcctcgc cgtcgccccc gccccgcca ccccggtct tcagccccac ggctgccttc       600
ccggtgcccg acgtgttccc actgccgccg ccaccaccgc cgctcccgag cccgggacag       660
gcgtcccact gctcgtcgcc tgccacccgc ttcggccacg gccagacgcc cgcggccttc       720
ctcagcgctc tgctgcccct cgcagccgccg ccggcggccg tcaacgccct ggggctgccc       780
aagggtgtca ccccgcagg atttccaaag aaggccagta gaactgctag aatagcctcc       840
```

```
gatgaggaaa ttcaaggcac aaaggatgct gttattcaag acctggaacg aaaacttcgc    900
ttcaaggagg acctcctgaa caatggccag ccgaggttaa catacgaaga aagaatggct    960
cgtcgactgc taggtgctga cagtgcaact gtctttaata ttcaggagcc agaagaggaa   1020
acagctaatc aggaatacaa agtctccagc tgtgaacaga gactcatcag tgaaatagag   1080
tacaggctag aaaggtctcc tgtggatgaa tcaggtgatg aagttcagta tggagatgtg   1140
cctgtggaaa atggaatggc accattcttt gagatgaagc tgaaacatta caagatcttt   1200
gagggaatgc cagtaacttt cacatgtaga gttgctggaa atccaaagcc aaagatctat   1260
tggtttaaag atgggaagca gatctctcca aagagtgatc actacaccat tcaaagagat   1320
ctcgatggga cctgctccct ccataccaca gcctccaccc ctagatgatg atgggaatta   1380
tacaattatg gctgcaaacc ctcagggccg catcagttgt actggacggc taatggtaca   1440
ggctgtcaac caaagaggtc gaagtccccg gtctccctca ggccatcctc atgtcagaag   1500
gcctcgttct agatcaaggg acagtggaga cgaaaatgaa ccaatttagg agcgattctt   1560
tcagacctca cttcttgcag gctcctggag atctgactgg ttcaagaagg aaaactctgc   1620
agaatggact gcaaagtcag tgggttacca accccagatc taagctggca actagatgga   1680
aagcccgtac gccctgacag tgctcacaag atgctggtgc gtgagaacgg ggtgcactct   1740
ctgatcatag agccagtcac gtcacgtgat cgcccggaat ctacacatgt atagctacca   1800
accgagcaag gacagaactc atcaagctgg gagcttgtgg ttgcttgcta aagaagcaca   1860
caaaccccct gtgtttattg agaagctcca aaacacagga gttgctgatg ggtacccagt   1920
gcggctggaa tgtcgtgtat tgggagtgcc accacctcag atattttgga agaaagaaaa   1980
tgaatcactc actcacagca ctgaccgagt gagcatgcac caggacaacc acggctacat   2040
ctgcctgctc attcagggag ccacaaaaga agatgctggg tggtatactg tgtcagccaa   2100
gaatgaagca gggattgtgt cctgtactgc caggctggac gtttacaccc agtggcatca   2160
gcagtcacag agcaccaagc caaaaaaagt acggccctca gccagtcgct atgcagcact   2220
ttcggaccag ggactagaca tcaaagcagc gttccaacct gaggccaacc catctcacct   2280
gacactgaat actgccttgg tagaaagtga ggacctgtaa tccagcattc ttgttaaagc   2340
tgaaacactg aaacagccat tgccttgacc aacatattcc tttgtcacat tatgtaaaag   2400
gcagaaacat acctttgact ataaaaaaaa aa                                 2432
```

<210> 2991
<211> 7131
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3186)...(7134)
<223> similar to gi|196429 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2991
```
cgaattcccg ggtcgagcgt ggtcattgag acaagtcga cgagagatcc cgagtacatc     60
tacagtcagc cttacggtaa gcttgtgcgc tcggaagaag ctagggtgat aatggggcaa    120
actaaaagta aaattaaaag taaatatgcc tcttatctca gctttattaa aattctttta    180
aaaagagggg gagttaaagt atctacaaaa aatctaatca agctatttca aataatagaa    240
caattttgcc catggtttcc agaacaagga actttagatc taaaagattg gaaaagaatt    300
ggtaaggaac taaacaagc aggtaggaag ggtaatatca ttccacttac agtatggaat    360
gattgggcca ttattaaagc agctttagaa ccatttcaaa cagaagaaga tagcgtttca    420
gttcctgacg cccctagaag ctgtatagta gattgtaatg aaaagacaag gaaaaaatcc    480
cagaaagaaa tggaaagttt acattgcgaa tatgtagcag agccggtaat ggctcagtca    540
acgcaaaatg ttgactataa tcaattacag gaggtgatat atcctgaaac gttaaaatta    600
```

1796
```

```
gaaggaaaag gtccagaatt agtggggcca tcagagtcta aaccacgagg gccaagtcct    660
cttccagcag gtcaggtgcc cgtaacatta caacctcaaa ggcaggttaa agaaaataag    720
acccacccgc cagtagccta tcaatactgg cctccggctg aacttcagta tcggccaccc    780
ccagaaagtc agtatggata tccacgcccg cccccagcac cacagggcag ggcgccatac    840
cctcagccgc ccactaggag acttaatcct acggcaccac ctagtagaca gggtagtgaa    900
ttacatgaaa ttattgataa atcaagaaag gaaggagata ctgaggcatg gcaattccca    960
gtaacgttag aaccgatgcc acctggagaa ggagcccaag agggagagcc tcccacagtt   1020
gaggccagat acaagtcttt ttcgataaaa atgctaaaag atatgaaaga gggagtaaaa   1080
cagtatggac ccaactcccc ttatatgagg acattattag attccattgc tcatggacat   1140
agactcattc cttatgattg ggagattctg gcaaaatcgt ctctctcacc ctctcaattt   1200
ttacaattta agacttggtg gattgatggg gtacaagaac aggtccgaag aaatagggct   1260
gccaatcctc cagttaacat aggatgcaga tcaactatta ggaataggtc aaaattggag   1320
tactattagt caacaagcat taatgcaaaa tgaggccatt gagcaagtta gagctatctg   1380
ccttagagct tgggaaaaaa tccaagaccc aggaagtacc tgcccctcat ttaatacagt   1440
aagacaaggt tcaaaagagc cctaccctga ttttgtggca aggctccaag atgttgctca   1500
aaagtcaatt gccgatgaaa aagccggtaa ggtcatagtg gagttgatgg catatgaaaa   1560
cgccaatcct gagtgtcaat cagccattaa gccattaaaa ggaaaggttc ctgcaggatc   1620
agatgtaatc tcagaatatg taaaagcctg tgatggaatc ggaggagcta tgcataaagc   1680
tatgcttatg gctcaagcaa taacaggagt tgttttagga ggacaagtta gaacatttgg   1740
aggaaaatgt tataattgtg gtcaaattgg tcacttaaaaaa aagaattgcc cagtctttaaa   1800
caaacagaat ataactattc aagcaactac aacaggtaga gagccacctg acttatgtcc   1860
aagatgtaaa aaaggaaaac attgggctag tcaatgtcgt tctaaatttg ataaaaatgg   1920
gcaaccattg tcgggaaacg agcaaagggg ccagcctcag gccccacaac aaactggggc   1980
attcccaatt cagccatttg ttcctcaggg ttttcaggga caacaacccc cactgtccca   2040
agtgtttcag ggaataagcc agttaccaca atacaacaat tgtccctcac cacaagcggc   2100
agtgcagcag gtagatttat gtactataca agcagtctct ctgcttccag gggagccccc   2160
acaaaaaatc cccacagggg tatatggccc actgcctgag gggactgtag gactaatctt   2220
gggaagatca agtctaaatc taaaaggagt tcaaattcat attggtgtgg ttgattcaga   2280
ctataaaggc gaaattcaat tggttattag ctcttcaatt ccttggagtg ccagtctagg   2340
agacaagatt gctcaattat tactcctgcc atacattaag ggtggaaata gtgaaataaa   2400
aagaatagga gggcttggaa gcactgatcc aacaggaaag gctgtcatat tgggcaaatc   2460
aagtctcaga ggacagacct gtgtgtaagg ccattattca aggaaaacag tttgaagggt   2520
tggtagacac tggagcagat gtctctatca ttgctttaaa tcagtggcca aaaaattggc   2580
ctaaacaaaa ggctgttaca ggacttgtcg gcataggcac agcctcagaa gtgtatcaaa   2640
gtactgagat tttacattgt ttagggccag ataatcaaga aagtactgtt cagctaatga   2700
ttacttcaat tcctcttaat ctgtggggtc gagatttatt acaacaatgg ggtgcggaaa   2760
tcaccatgcc cgctccatta tatagcccca tgagtcaaaa aatcatgacc aagatgggat   2820
atataccagg aaagggacta gggaaaaatg aagatggcat taaaattcca gttgaggcta   2880
aaataaatca agaaagagaa ggaatagggt atcctttta ggggcggcca ctgtagagcc   2940
tcctaaaccc ataccactaa cttggaaaac agaaaaaccg gtgtgggtaa atcagtggcc   3000
gctaccaaaa caaaaactgg aggctttaca tttattagca aatgaacagt tagaaaaggg   3060
tcacattgag ccttcgttct caccttggaa ttctcctgtg tttgtaattc agaagaaatc   3120
aggcaaatgg ccatatgtta actgacttaa gggctgtaaa cgccgtaaac gccgtaattc   3180
aacccatggg gccttctcca accccgggtt gcccttctcc ggcccatgat ccccaaaagg   3240
atgggccctt taattataat ggatctaagg gattgctttt ttacccatcc ctctggcggg   3300
agcaggattg cggaaaaatt tgcctttact ataccagcca taaataataa agaaccagcc   3360
accaggtttc agtggaaagt gttacctcag ggaatgctta atagtccaac tatttgtcag   3420
acttttgtag gtcgagctct tcaaccagtt agagacaagt tttcagactg ttatattatt   3480
cattatattg atgatatttt atgtgctaca gaaacgagag ataaattaat tgactgttat   3540
acatttctgc aagcagaggt tgccaatgca ggactggcaa tagcatctga taagatccaa   3600
acctctactc cttttcatta tttagggatg cagatagaaa atagaaaaat taagccacaa   3660
aaaatagaaa taagaaaaga cacattaaaa acactaaatg attttcaaaa attactagga   3720
gatattaatt ggattcggcc aactctaggc attcctactt atgccatgtc aaatttgttc   3780
tctatcttaa gaggagactc agacttaaat agtaaaagaa tgttaacccc agaggcaaca   3840
aaagaaatta aattagtgga agaaaaaatt cagtcagcgc aaataaatag aatagatccc   3900
ttagccccac tccaactttt gatttttgcc actgcacatt ctccaacagg catcattatt   3960
caaaatactg atcttgtgga gtggtcattc cttcctcaca gtacagttaa gacttttaca   4020
```

                                        1797

```
ttgtacttgg atcaaatagc tacattaatc ggtcagacaa gattacgaat aataaaatta  4080
tgtgggaatg acccagacaa aatagttgtc cctttaacca aggaacaagt tagacaagcc  4140
tttatcaatt ctggtgcatg gcagattggt cttgctgatt ttgtgggaat tactgataat  4200
cattacccaa aaacaaaaat cctccagttt ttaaaattga ctacttggat tttacctaaa  4260
attaccagtc acggaccttt agaaatgct  ctgacagtat atactgatgg ttccaacaat  4320
ggaaaagcag cttacacaga gccaaaagag caagtaatca aaactcagta tcaattggct  4380
caaagagcag agttggttgc agtcattaca gtgttacaag attttgatca atctatcaat  4440
attgtatcag attctgcata tgtagtacag gctacaaggg atgtaaagac agctctaatt  4500
aaatatagca tggatgatca gttaaaccag ctattcaatt tattacaaca aactgtaaga  4560
aaaagaaatt cccatttta tattactcat attcgagcac acactaattt accagggcct  4620
ttgactaaag caaatgaaca agctgactta ctggtatcat ctgcattcat aaaagcacaa  4680
aaatttcatg ctttgactca tgtaaatgca gcaggattaa aaaacaaatt tgatgtcaca  4740
tggaaacagg caaaagatat tgtacaacat tgcacccagt gtcaaatctt acacctgccc  4800
actcaagagg caggagttaa tcccagaggt ctgtgtccta atgcgttatg gcaaatggat  4860
ggcacgcatg ttccttcatt tggaagatta tcatatgttc atgtaacagt tgatacttat  4920
tcacatttca tatgggcaac ttgccaaaca ggagaaagta cttcccatgt taaaaaacat  4980
ttattatctt gttttgctgt aatgggagtt ccagaaaaaa tcaaaactga caatggacca  5040
ggatattgta gtaaagcttt ccaaaaattc ttaagtcagt ggaaaatttc acatacaaca  5100
ggaattcctt ataattccca aggacaggcc ataattgaaa gaactaatag aacactcaaa  5160
gctcaattgg ttaaacaaaa cgaagggga gacagtaagg agtgtaccac tcctcagatg  5220
caacttaatc tagcactcta tactttaaat tttttaaaca tttatagaaa tcagactact  5280
acttctgcaa aacaacatct tactggtaaa aagcacagcc cacatgaagg aaaactaatt  5340
tggtggaaag ataataaaaa taagacatgg gaaatagga aggtgataac gtgggggaga  5400
ggttttgctt gtgtttcacc aggagaaaat cagcttcctg tttggatacc cactagacat  5460
ttgaagttct acaatgaacc catcggagat gcaaagaaaa gggcctccac agagatggta  5520
acccagtca catggatgga taatcctata gaagtatatg ttaatgatag tgtacgggta  5580
cctggcccca cagatgatcg ctgccctatc aaacctgagg aagaaggat aatgataaat  5640
atttccactg ggtatcgtta tcctcctatt tgcctaggga gagcaccagg atgtttaatg  5700
cctgcagtcc aaaattggtt ggtagaagta cctactgtca gtcccatcag tagattcact  5760
tatcacatgg taagcgggat gtcactcagg ccacgggtaa attatttaca agacttttct  5820
tatcaaagat cattaaaatt tagacctaaa gggaaacctt gccccaagga aattcccaaa  5880
gaatcaaaaa atacagaagt tttagtttgg gaagaatgtg tggccaatag tgcggtgata  5940
ttacaaaaca atgaatttgg aactattata gattgggcac ctcgaggtca attctaccac  6000
aattgctcag gacaaactca gtcgtgtcca agtgcacaag tgagtccagc tgttgatagc  6060
gacttaacag aaagtttaga caaacataag cataaaaaat tgcagtcttt ctacccttgg  6120
gaatggggag aaaaaagaat ctctacccca agaccaaaaa tagtaagtcc tgtttctggt  6180
cctgaacatc cagaattatg gaggcttact gtggcctcac accacattag aatttggtct  6240
ggaaatcaaa ctttagaaac aagagattgt aagccatttt atactatcga cctaaattcc  6300
agtctaacag ttcctttaca aagttgcgta aagccccctt atatgctagt tgtaggaaat  6360
atagttatta aaccagactc ccagactata acctgtgaaa attgtagatt gcttagttgc  6420
attgattcaa ctttttaattg gcaacaccgt attctgctgg tgagagcaag agagggcgtg  6480
tggatccctg tgtccatgga ccgaccatgg gaggcctcac catccatcca tattttgact  6540
gaagtattaa aaggcatttt aaatagatcc aaaagattca tttttacctt aattgcagtg  6600
attatgggat taattgcagt cacagctacg gctgctgtgg caggagttgc attgcactct  6660
tctgttcagt cggtaaactt tgttaatgat tggcaaaaga attctacaag attgtggaat  6720
tcacaatcta gtattgatca aaaattggca aatcaaatta atgatcttag acaaactgtc  6780
atttggatgg agacagact  catgagctta gaacattgtt tccagttaca gtgtgactgg  6840
aatacgtcag attttttgtat tacaccccaa atttataatg agtctgagca tcactgggac  6900
atggttagac gccatctaca gggaagagaa gataatctca ctttagacat ttccaaatta  6960
aaataacaaa ttttcgaagc atcaaaagcc catttaaatt tgatgccagg aactgaggca  7020
attgcaggag ttgctgatgg cctcgcaaat cttaaccctg tcacttgggt taagaccatc  7080
ggagtactat gattataaat ctcatattaa tccttgtgtg cctgtttgt c             7131
```

<210> 2992
<211> 1455
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1456)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1081)...(195)
<223> similar to gi179594 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 2992
tttttttttt tgcggtttcc aaacttttgt attttagca gcagaagcca tcctccaaac   60
aaaaccgtat gcaaaacctc agctacaaaa cagatcagtg ggctgcttgc ccgtgtgggg   120
catgggctgg gccccgagct ctccctccag cacccagtac ttcttccaca aggccctatg   180
tgagctcagt ttaaaacccc agggccttgg caggggtcag gtgggcggga gcagggggtg   240
gaccttgtag cactggagct aaagcagcca gataaggtgg gctagttctt aagacctctg   300
gagggtgtgg ctagtctctg agacctggac aacttcattc tccaccaggg cctggccccc   360
atccccattg agctgtctca tgcgcaggtt aatggagccg taggtcttcc tggagccctt   420
gccggggacg aaggtcctcc ggcggtacag ctcgcccttg cacagggaga ccatgagcag   480
caccgacaag agcatgccgc ccaccgtgag cagcccgagg cctgcgatga tgcacctgtc   540
caggtgggag cctaggcggg cgtagtacat ctccagtcgt tccatctccc gcgctgtcac   600
tgtgtccgga ttgactcgag cctcacgggg gatggcgtat gctgtcacca ccagaagaat   660
cccactcccc aggaaaacga gggcggaaac aaagccataa tccaccgggc ggctcacggg   720
ctccagggct ggcccctcct ctgaatgaag ggacagatca tcccgctggg atcggggcag   780
tgaggagaca cccccagggg gactgggtga gctgcccagt ctcgtgttcc cagggttctg   840
gaaatgggtc tcatgctcct ctgaggagaa gcaggcattc tccacaccct ccctggttgg   900
ggccactggg cccaggggag ctgatctcct tggggcttgg ggaccattgc tcagtgtctt   960
cagttccaga ccagggggag atgccattgg gaaggagggc cccagctcat cccttggccc   1020
cttggcagct gcaaactcat acccctgtgc tggtggcatc actccaccag ccttccctgg   1080
ctctgcatcc ctcactcata gactcttcat tttatccagc tgtttatcag caaccgtgag   1140
caccttgaga gcaggcataa gtttgaattc catctgggtc cccagcctgc gcccagactg   1200
cttttaccag agttaggaca tctctctgtt tcatgcccag gttcagagat attcaccagt   1260
tacacaaagg ccgtgcccaa ttaccctaac ataagcagaa acacaccaac tgacatagct   1320
gctcccgccc accattcaca ccccacgacc ccaccagtta ctaatttcat ctgcagtcag   1380
acaggtcctg aaaggaacac tccagttcca cacacactcc tnaggaattc cnccacntgg   1440
ncaaaggtct acgat   1455

<210> 2993
<211> 3892
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (3880)...(1696)
<223> similar to gi961444 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

        <400> 2993
tttttttttt ttcacagtga aaatggtttt atttaacatg cagcaaaaca agggcagcag   60
agctgggata tccagtacag ccatttgcca cgaagcactg acctcaacag taacgagtaa   120
cactcaaata actgtaatgt ctagagcata acacaaagtt ccatttccac atagtaattc   180
cacagacatt cccagggctg cagcagccag tctctggaaa gctcttggat ttattcctta   240
agtagtgaaa aatgattcac ttttgacttg tcctcttcta atgaagcagt gaaacctgct   300
tgctaaagac agcgaggggc agggaaggga tatgacctct tcccatagta aggaataagg   360
aagcctggca aggggcaggg aggaaccagg gaacatggtc tgtgccacct tcctttcccc   420
agagatgtcc gattgctgag cttgttcaac tgggctccgc aagcttcccc cgtgtctatg   480
gcagctggtg attttttttt tgtgacggag gcttggagta catgtcccag gatcacatcc   540
agcagctaga gtggctggga caagctggcg ggggccaagc actgttgaag caatagggtc   600
tggtgactca gctcaagtgt ggcccgatct catcacctcc agacccaaca tctcgctgac   660
agtgcccctc agtagctggg gaacagttga ggtttctggg cagcacatta ggacatatgt   720
ctagtgtaac atttgtgatc ctgaggcctc ctgtgtccag ccacaggtgc cacaccacat   780
gccatctggt gagaggagag ggaggccaaa gcagtaggat gtagagtggc ggtagattcc   840
aaggggagga tagcagttta tttcatgcca agcaagaggt agtcagtagg atggcctgtc   900
cccacggctg gaggcacgct tttcccagaa agctgagtac ctgcttctgg agaaggggaa   960
atactggctc tcttcatttt ccttcctatc cctagttggg cctgtcatga ggccaaattc   1020
catgtcctgc caagatgtcc ataggacaca gcctgccact gccagggaca agcacacaac   1080
tcatcactcc gtggccattc caggacgatg ctgtccacca gaggcagggc tggggacttt   1140
gcagtatgcc agttccttat tctgggccag gcaccttcct gggccacctc cctggggatg   1200
gcagcaggag ctggttggcg ggggaagcat ggaattgcaa cagggctgca gccccttggg   1260
ccgtgcatct gtcaggtgtg aggatgtggc tcttgtgggg aatgacccat gacagtctct   1320
ctttagagac tcccaccccc caccccccac cccagtggct tcagtgaatg ccagtagaag   1380
gaaagcaaac acctacgcca agcctggggg tccatgttcc cgggacagca gtgaagtcag   1440
gggccactcc gcacccctga cagcatatgg ccacttcaag tcacacaggt agataaaaac   1500
aggtcctttt aggggccaaa ggagaggtta tcacagcagc agtttggttc tcagcagaaa   1560
tgcccagggc ccctgttcca catcaaagct acaagcactg ttgtcagggc atggagagtg   1620
acgggaccag agccctcctc gtctcagggc agcctgcctg gcttcaaggt ggagatcaca   1680
gcgtcctctg gggtcatagg ttcccccact gttccacagg agggaactgg tccacctcgc   1740
ccacctctgt gctcagctgc tcccccaggg cgaaggtcag cttataccga agccgcacct   1800
tctccttcag tggattggcc agcaacatga cctgggtgat ggctgcaggt ggctggatgg   1860
ggctaaatgg agagagttct gtcccagaag gtggctgcaa cttcactttc attgacttgg   1920
gcactgcagc ctgcagcacg atgctcttga caggtaaggg agccgtgttc agcatggaca   1980
ccaccaccac cagcacgtca ggtcgtcctg ggggacactc cttggcaaag tggaagagga   2040
tgcggaagcc gtttttatcg taggctgtca caggaagggc actgctaggc ttgatcgatt   2100
ccaggggcac gtggatgctg ccagggaga gctcaggccc cttcgggggg ctgccctggg   2160
actggaaact cagtggctgg aagagcgggc tgccgggccc cgtggagaag ggcaggaggg   2220
gcctggctgg ggtggtggtg gggatgagag gggaggtagt gggtttcacc aagcccgagg   2280
tcactttggc ctcttctaga agctgatcga gggcatccag gtggtgcagc gcgctgttgc   2340
ccaacgccaa gccatggtgc ccagggactg cgggctcaac ttttggggcc aaggctgggg   2400
ccactccagt agaaaacaag gaggagcccg cactgggggc aggaacactg gctgggacca   2460
caggagctgg gaagggaggc ggcagtggag cttgggagct gcttgaggag ggggctgagg   2520
gctggagcag aggagcgtcg gaggcgccac aggcagcggt ccccggcctg gggctgaaga   2580
agtccaggtc ggactgttcc ctctggagca ggtgccactg gctgttccca gctgactctt   2640
tgggaggaac attaggggct gggtcggcga ggcccaagca gagtagctcc tcgtccagcc   2700
aggagagggc gttgcttgtg ctgctgggcc ccagggtggc ctcggcctgg ctagaggagc   2760
ggctccgtgg aggtcctgag gcctggggtg gtggagggag gattgggatg cctgaggagg   2820
gtggagtagg tgctggggcc aacacggagg acaaactgtt ggtcgtgtcc agctccgcaa   2880
ggtcgatgag cgtgccttgg ttactgcact gactgtttcc ttccgagtca ggcagggtta   2940

                                  1800

```
aggtagccac ctcgccattg atgacctgcc cttcaataat tgttttgtaa gagttgatga    3000
cccgggagag gttgtcactg gcttgcagga tgtcccccaa actgttatca ttgtcctcag    3060
tctcactggc gagtttaaat aaagtccgcc tcttgttctc acactgatca aacagctcct    3120
tcatcagctc tctgtccccg tccgaagagt cctcctggct gtaatgaagc agcatctcac    3180
tgagcagtct cacgttgttg ttaacttcct ctaacgtgtg cagacgcttg gtcaccttct    3240
ggatccgtgc ctcgtcttcc ctcaccatgg acttgatgag cttgttggcc tcctgcaggt    3300
catctgggtt tttgcttttc agcagcttgg ctaaaagctt ggacttctcc tcatcatcaa    3360
aaacagggtt tttgggacga ggtggtggag aggggatcag cgtcctatcc acaggaattg    3420
gtgggtcaga ctgcactatg ccctgtctct tcagcatgtg gtaggcgtct ttgatctttg    3480
cttcttctgg cagggccatg gtccagctgt acagcagctc aataaccttg gtcttcactt    3540
tctcagacac cctgtccccc aggtacgtca gggcctggag cgcctcccat tcctgtgggg    3600
actggatctt gtgggccagc agtcggacgg cgatctgtgg cctgggggac aagcagaaca    3660
cactccagtg cactaagcct ggggctacct ggctggccct ccttggccat ggttgttccc    3720
cttcccagtc cgctccctct cagctgcccc cacagtgctg agactcaccc ttccagctcc    3780
ttgttgatct gatcacagaa gccaattatg tattcccagt cctcctggcg gttggaagga    3840
ttggtggctt tattgagcca ggactccagg ctttcccacg aaatagtcga cc            3892



<210> 2994
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (281)...(30)
<223> similar to gi854422 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



<400> 2994
ggagccaccg cgcccccgc caaatttaga cttttttgagc tctgtgcgtt gtgcctttca     60
acacttttca caatggattt tctgcttctt gataaggaag gcacccttga tcctgtcatg    120
gattcattta gcacacattg gaccacgata ggccctgctg acatgttttt ttcattgtag    180
acagcattat aagaacttta aatctcacgg cacaaacccc tcgaagtctg tctgggcaca    240
tgccacatgc caatcttgtg cctttcccaa ccttcttggt tgg                      283



<210> 2995
<211> 1642
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (9)...(1274)
<223> similar to gi5640019 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



1801
```

```
cctcggagat gagttgctgg atgacgggga ggatgaggaa gatgaagacg aggcctggaa    360
ggccttcaac ggtggctgga cggagatgcc tgggatcctg tggatggagc ctacgcagcc    420
gcctgacttt gccctggcct atagaccgag cttcccagag gacagagagc cacagatacc    480
ctacccggag cccacctggc caccccgct cagtgccccc agggtcccct accactcctc    540
agtgctctcc gtcacccggc ctgtggtggt ctctgccacg catcccacac tgccttctgc    600
ccaccagcct cctgtgatcc ctgccacaca cccagctttg tcccgtgacc accagatccc    660
cgtgatcgca gccaactatc cagatctgcc ttctgcctac caacccggta ttctctctgt    720
ctctcattca gcacagcctc ctgcccacca gcccctatg atctcaacca aatatccgga    780
gctcttccct gcccaccagt cccccatgtt tccagacacc cgggtcgctg gcacccagac    840
caccactcat ttgcctggaa tcccacctaa ccatgcccct ctggtcacca ccctcggtgc    900
ccagctaccc cctcaagccc cagatgccct tgtcctcaga acccaggcca cccagcttcc    960
cattatccca actgcccagc cctctctgac caccacctcc aggtcccctg tgtctcctgc   1020
ccatcaaatc tctgtgcctg ctgccaccca gcccgcagcc ctccccaccc tcctgccctc   1080
tcagagcccc actaaccaga cctcacccat cagccctaca catccccatt ccaaagcccc   1140
ccaaatccca agggaagatg gccccagtcc caagttggcc ctgtggctgc cctcaccagc   1200
tcccacagca gccccaacag ccctggggga ggctggtctt gccgagcaca gccagaggga   1260
tgaccggtgg ctgctggtgg cactcctggt gccaacgtgt gtctttttgg tggtcctgct   1320
tgcactgggc atcgtgtact gcacccgctg tggcccccat gcacccaaca agcgcatcac   1380
tgactgctat cgctgggtca tccatgctgg gagcaagagc ccaacagaac ccatgccccc   1440
caggggcagc ctcacagggg tgcagacctg cagaaccagc gtgtgatggg gtgcagaccc   1500
ccctcatgga gtatggggcg ctggacacat ggccggggct gcaccaggga cccatggggg   1560
ctgcccagct ggacagatgg cttcctgctc cccaggccca gccagggtcc tctctcaacc   1620
actagacttg gctctcagga actctgcttc ctggcccagc gctcgtgacc aaggatacac   1680
caaagccctt aagacctcag ggggcgggtg ctggggtctt ctccaataaa tggggtgtca   1740
accttaccca aaaaaaaaa                                                 1759
```

```
      <400> 2997
agttgcgtgg aatttatcca aatccagacc gtgggtgccc tttccccacc accatcccag    60
ctgttctcac cctgggaagg ggagcggcgg gttggcacgg ccagtgtcct ccaaccagtg   120
aagaagcgca aagtggacat gcccatcact gtgtcctacg ccatctcagg gcagccggtg   180
gccaccgtgc tggccattcc acagggccag cagcagagtt atgtgtcttt gaggccagac   240
ttactgacag tagacagtgc ccacctgtac agtgccactg ggaccattac tagccctaca   300
ggagaaacct ggaccatccc tgtttattct gcccagcccc ggggggaccc tcagcagcag   360
agcattaccc acattgccat tccccaggaa gcctacaacg cagttcacgt cagtggctca   420
cccacagccc tggcagctgt taagctggag gatgacaagg agaagatggt gggcaccaca   480
tctgtagtga aaaactccca tgaagaggta gtgcagaccc ttgcaaactc tctctttcca   540
gcacagttca tgaatggcaa catccacatt ccagtggctg tgcaggctgt ggcaggcacg   600
taccagaata cggctcaaac tgtccatata tgggaccccc aacagcagcc gcagcagcaa   660
actccccagg aacagacacc accaccacag cagcagcagc agcaactcca agttacttgt   720
```

```
tcagctcaaa ctgtccaggt tgctgaagtt gaaccacagt cacagccaca gccttcccca    780
gaacttctgc ttccaaattc tttgaagcca gaagaagggc ttgaagtatg gaaaaactgg    840
gcccagacca agaatgctga actagagaag gatgctcaga acagattggc acccattggg    900
aggcgccaac tgctgcgatt ccaggaagat ctcatctcct ctgctgtggc agagttgaat    960
tatgggctct gtctaatgac acgggaagct cgaaatggag aaggtgaacc ctatgaccca   1020
gatgtgctct actatatttt cctgtgtatt caaaagtatc tttttgaaaa tggaagggta   1080
gatgacattt tctccgatct ttattatgtt cggttcacgg agtggctaca tgaagttctg   1140
aaggatgttc agccccgggt cactccactt ggctatgtct tgcccagcca cgtgactgag   1200
gagatgctat gggagtgcaa gcagcttggg gctcactccc cctccacctt gctgaccacc   1260
ctcatgttct ttaataccaa gtacttccta ttgaagacag tggaccagca catgaagctg   1320
gccttctcca aggtcttgcg acagacaaag aagaacccct ctaatcccaa ggataaaagc   1380
acgagtatcc ggtacttgaa ggcccttgga atacaccaga ctggccagaa agttacagat   1440
gacatgtatg cagaacagac ggaaaatcca gagaatccat tgagatgtcc catcaagctc   1500
tatgatttct acctcttcaa atgcccccag agtgtgaaag gccggaatga caccttttac   1560
ctgacacctg agccagtggt ggcccccaac agcccaatct ggtactcagt ccagcctatc   1620
agcagagagc agatgggaca aatgctgacg cggatcctgg tgataagaga aattcaggag   1680
gccatcgcag tggccaatgc aagcactatg cactgagatg ccttggccat ggcacaagag   1740
aaaccagcca ggaaaaacca gacagacttt cacactaaag aagaggcctc cattttttt    1800
tttctttttt ttattggggg agttacgaag cctttcaggc tgcttctgtt taaaatataa   1860
aagaaaactt tgcccccttt gcatcttcat aaacctgctg cgggcagact cctcagccga   1920
tggtggctct gggtttcctt gagtgtcata tgtcctagaa agttgctggc tgactctttt   1980
ttgtctgggg cctggggaaa gggcttggac tgtgaaaaga aatgtgggcc cctttccatc   2040
ttcaagagag atggaattaa tgatgggatg ggaccctggg gagggaatct tcccccagcc   2100
gacttcccac tgggctgacc agactttgct ggacccacag ggggaacgat ggtcctttcc   2160
cttccctcca tggatcagcc ataaccttag gcaccttaat gggaagaaaa atgaggggga   2220
acttcaatta tgatttatta aagacaattt ctattacacc ctcctttatg acaagtgaca   2280
ttttagatgt aaaagtaaaa actttaccat gccttttttt ttttttttgtt ggcctaacat   2340
tgaggcctta aaacctgagg ctcctgtgcc tgatggaatt cttgtaacat acacttgtgt   2400
atcatataaa gataccactc tgtttctctt atgtattctt actctagttg tttattaaga   2460
atgacaagca cgtcttttca aaaaaaaaaa aa                                 2492
```

```
        <400> 2998
tttttttttt ttgagatgga gtttgttgcc caggctggag tgagtggcac agtctcggct    60
cactgcaacc tccacctcct gggttcaagc agttctcgtg ccgcagcctc ccaagtagct   120
gggactacag gcatgcgcca ccacgccagg ctaatttttg tattttttagt agagatgggg   180
tttcaccatg tctcaaactc ctgacctcag gcgatccacc cacctcagcg tcccaaagtg   240
ctgggattat aggcgtgagc caccgcacct ggcctatgag tggtctttta attaggaaca   300
aatctaatgg aaaggagagt tgactgaagt tggcccacag gattgtgaag ctgggcagtg   360
ccttcatgaa ggcttgccac cttgggacgc cccagtttac tggggtgtct tgcggagtgc   420
```

```
agaaggcttt ctggcagctg cctgggtttg gccagaccct gcctcccctc ccgccggcca      480
accccactagtc cccttcctgt ctccacttgc attcaggggt ggctgctgtt ctgagaacat      540
tagaactggg aagagagatg gagtcacatg gatttttggt gggcattatt ctaaacttttc      600
gtatccaagt tagtcccect tattccactg tggcattgcc gttctaagca gttacctgat      660
gcctgctgct gaagagctgc tcacaggagg cggcggcggc cctggcactg ccccttgcat      720
taggtcttgt gtttgatgtg ttcttgtgaa tttactttgt cagaacaaaa tatttacgcg      780
ttgggttcag gaatttcttt tagctcccca tctggctgtg aaattcagga aacctcccgt      840
tgcctagtaa tcaccccatg taggtgtaca ttgtgacaaa gtgcatctga ccactaaggg      900
gcccccttgg tgaccccagc acattcacag cagtgttaga atggcctgca ttttggagat      960
gctggctggc cttttcagtgc ctcccaggaa gacacatggc cttttccctct tcagatgcct     1020
gaagggagtg ctttgaggca ggtgatgtgc tgggagtgtg ggcggcctcc ctctggcccc     1080
ggggccctct gtggaccttg gctccctccg tggacctggg cttcgtggtg agcactgcag     1140
cctccctggg cattccctcc agcgccagca ccactgcaac atatagacct gagtgctatt     1200
gtattttggc ttggtgtgta tgctcttcat tgtgtaaaat tgctgttctt ttgacaattt     1260
aagtgattgt tttgtttact gtaagtttga aaataaaaat gaagaaaaaa attccaatga     1320
ctgtgctgtg gttggagact ttatttacca agatgtttac tcttccttctc cccttccatt     1380
ttgaggagct gtgtcactcc tcctcccccc cagtgctttg tagtctctcc tatgtcataa     1440
                                                                       1459
taaagctaca ttttctctg
```

<210> 2999
<211> 2852
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2855)...(2359)
<223> similar to gi3002527 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 2999
```
ctacgagtac gtcggcgccc gcacctcccc gcaccgcccg cgctgcgcgc ccggaggagc       60
gaccgccgca gttctcgagc tccagctgca ttccctccgc gtccgcccca cgcttctccc      120
gctccgggcc ccgcaatggc ccaggcagtg tggtcgcgcc tcggccgcat cctctggctt      180
gcctgcctcc tgccctgggc cccggcaggg gtggccgcag gcctgtatga actcaatctc      240
accaccgata gccctgccac cacgggagcg gtggtgacca tctcggccag cctggtggcc      300
aaggacaacg gcagcctggc cctgcccgct gacgcccacc tctaccgctt ccactggatc      360
cacacccccgc tggtgcttac tggcaagatg gagaagggtc tcagctccac catccgtgtt      420
gtcggccacg tgcccgggga attcccggtc tctgtctggg tcactgccgc tgactgctgg      480
atgtgccagc ctgtggccag gggctttgtg gtcctcccca tcacagagtt cctcgtgggg      540
gaccttgttg tcaccagaa cacttcccta ccctggccca gctcctatct cactaagacc      600
gtcctgaaag tctccttcct cctccacgac ccgagcaact tcctcaagac cgccttgttt      660
ctctacagct gggacttcgg ggacgggacc cagatggtga ctgaagactc cgtggtctat      720
tataactatt ccatcatcgg gaccttcacc gtgaagctca aagtggtggc ggagtgggaa      780
gaggtggagc cggatgccac gagggctgtg aagcagaaga ccggggactt ctccgcctcg      840
ctgaagctgc aggaaaccct tcgaggcatc caagtgttgg ggcccaccct aattcagacc      900
ttccaaaaga tgaccgtgac cttgaacttc ctggggagcc ctcctctgac tgtgtgctgg      960
cgtctcaagc ctgagtgcct cccgctggag gaaggggagt gccaccctgt gtccgtggcc     1020
agcacagcgt acaacctgac ccacaccttc agggaccctg gggactactg cttcagcatc     1080
cgggccgaga atatcatcag caagacacat cagtaccaca agatccaggt gtggccctcc     1140
```

                                         1805
```

```
agaatccagc cggctgtctt tgctttccca tgtgctacac ttatcactgt gatgttggcc    1200
ttcatcatgt acatgaccct gcggaatgcc actcagcaaa aggacatggt ggagaacccg    1260
gagccaccct ctggggtcag gtgctgctgc cagatgtgct gtgggccttt cttgctggag    1320
actccatctg agtacctgga aattgttcgt gagaaccacg ggctgctccc gccctctat    1380
aagtctgtca aaacttacac cgtgtgagca ctcccctcc ccaccccatc tcagtgttaa    1440
ctgactgctg acttggagtt tccagcaggg tggtgtgcac cactgaccag gaggggttca    1500
tttgcgtggg gctgttggcc tggatcatcc atccatctgt acagttcagc cactgccaca    1560
agcccctccc tctctgtcac ccctgacccc agccattcac ccatctgtac agtccagcca    1620
ctgacataag ccccactcgg ttaccacccc cttgaccccc tacctttgaa gaggcttcgt    1680
gcaggacttt gatgcttggg gtgttccgtg ttgactccca ggtgggcctg gctgcccact    1740
gcccattcct ctcatattgg cacatctgct gtccattggg ggttctcagt ttcctcccc    1800
agacagccct acctgtgcca gagagctaga aagaaggtca taaagggtta aaaatccata    1860
actaaaggtt gtacacatag atgggcacac tcacagagag aagtgtgcat gtacacacac    1920
cacacacaca cacacaca cacacagaga aatataaaca catgcgtcac atgggcattt    1980
cagatgatca gctctgtatc tggttaagtc ggttgctggg atgcaccctg cactagagct    2040
gaaaggaaat ttgacctcca agcagccctg acaggttctg ggcccgggcc ctccctttgt    2100
gctttgtctc tgcagttctt gcgcccttta taaggccatc ctagtccctg ctggctggca    2160
gggggctgga tggggggcag gactaatact gagtgattgc agagtgcttt ataaatatca    2220
ccttattta tcgaaaccca tctgtgaaac tttcactgag gaaaaggcct tgcagcggta    2280
gaagaggttg agtcaaggcc gggcgcggtg gctcacgcct gtaatcccag cactttggga    2340
ggccgaggcg ggtggatcac gagatcagga gatcgagacc accctggcta acacggtgaa    2400
accccgtctc tactaaaaaa atacaaaaag ttagccgggc gtggtggtgg gtgcctgtag    2460
tcccagctac tcgggaggct gaggcaggag aatggtgcga acccgggagg cggagcttgc    2520
agtgagccca gatggcgcca ctgcactcca gcctgagtga cagagcgaga ctctgtctcc    2580
aaaaaaaaaa aggccgggcg cggtggctca cgcttgtaat cccagcactt tgggaggccg    2640
aggcgggcgg atcacgaggt caggagatcg agaccatcct ggctaacacg gtgaaacccc    2700
gtctctacta aaaatacaaa aaaaattagc cgggcgtgat ggtgggcgcc tgtagtccca    2760
tctactcggg aggctgaggc aggagaatgg cgtgaacccg ggaggtggag gttgcagtga    2820
gccgagattg cgccactgca ctcccgcctg gg                                  2852
```

```
<400> 3000
ttttttttt ttgctataaa attatctcgg gtttaattat tatcaatatc agaactatag     60
aacattaacg gtactaaacc tgtatttaca attacatgta caaaaaaaaa tgttctttgt    120
gaggagcaat tttcagcaaa tctgacaaac agcaagagtc attcctattt tgggtttgaa   180
```

```
aagagaaatg ggaaatttcc aaggacggcc cccctcctcc ctctcactcc agtggaccct    240
ctggaacatc aatttggcaa agggcctgag gtagaaaggg aggtattaac aatatcaggc    300
actcattctt cccctcttat gaaagggatg aatttttagg aaccgttttc catcatttat    360
tatactgatg tgccatccat ctgcatcatt aggttcagta gttaccatga caatatgatg    420
cctacagcaa tctaacttga tagccacatg ccagaatgtg aaaaaatagg accagctaag    480
aaagtgagag aaatataatt aatctgagcc acattcaaaa aaatgtgcac aaaactagga    540
ccaagaggga aactgctgaa atatcattga agaggaaatt ataaagggca gcaataatca    600
agtttcagta taaaaacttt tgctaaatag agccatgtat tggtctatta ctaagacagg    660
aagtagtcaa agttggtcta gaatattgtt ctgagcccct gcccctcccc ctgcttccca    720
tttcttgcta cagggccctg cggtatcatc tttgattcta gctgttaggg ccctaatttc    780
cccaaggctc tcaagccacc accataagtg ccaccaccat gtcactctgc tcatgtgcag    840
tctgctatta gacccagact ttccacctga tgaaataatt tccatcattg tgaagttaat    900
cttaagagac tgaattgtgc tgtgtcttga gagatcctgt cctcttgcct tctaagtgcc    960
cggtggaggc atcgggctag cacaaacctc ttgagggtcc caatatggta gagaggggct   1020
gggagattga gaaaaagaga gcaagaaagt ttcagtcctg ggagatgagc ctgggacgtg   1080
tgtttattct cagcatggct gggtgggata gcgacgctga gctaggcgat ttggccgatt   1140
caggctagtg gccgtgggca gctgaggcac ctgagatggg ttgtaaagag aacagcccc   1200
ttttaaggca ggtggaggaa gaagaacacc agggttggag cagagctcaa aggaaacact   1260
ctctggtcca gacaagcctc caaccccagc gcccgcagct gctccccgc tggatgcgga    1320
atcctcggcc cttcaccccc nacctctgcc cctggagaag gcactaacat ccggcagagg   1380
tggggactca ggggaaggtg tcagtgagag gcccaggcca gcctggtggg gagaagatgc   1440
tctgggggtc tcctgctcag agtcagggct gtctgaggag tcctcgtctc cagcggggga   1500
tgcgttcttg gtgggcttcg atcgaaacca gctgaaccag ccaaaccctg agctctttgt   1560
atgctccttc ccatctccga gcttgcctct ctgggcagta tttcggggag agtttttatc   1620
agcctcatca gaggactcct tctcatcctc cttggctgaa ctggcggaac tctcagaaat   1680
acttcgtgct ctagcagcca atggtgtctg tggtttggaa atgacctctt ggccatcagg   1740
aggctgggaa gtttcttgag acactgtgtt ctctccaggg cccaggtgtg tctgcagcat   1800
ttcctcccag actgttcctc cagtggcctc tgtcactgcc acgctgctgc cagtccctgg   1860
tagatgggtc tcaggcactg agtaaaaagg cctcggtgtc cctgtctgcc ctgcaccccc   1920
tcctgttggg taggagcccg gctggagggg aaagggcccc tgtggtctgg gctggagcag   1980
gcaggtctga tcaggtgtca gccacagagc tgagcgccca cgcgtccg                 2028
```

<210> 3001
<211> 1697
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1698)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1685)...(489)
<223> similar to gi2317934 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3001
ggctgctggg tgtcctggca ggcacgtcct gtggggtcag cacgccggct gcagcgcagg   60

                                    1807
```

```
gtgggcctga  gatcgggtgc  cgggcccccc  atctccacct  gtctggacac  gcacccctgg      120
cctgtccttg  cagcttcctc  ccgacatccc  ttggcggtgt  ctgtgtctcg  gccccagccc      180
cagccctcct  ttcctggggc  accctcccag  ccatctggta  ttggggctgc  ccccattgcc      240
tagtcctggg  cccagggcca  gcccactctg  ggctggcttt  acttgtctgt  tcctaatggc      300
agggcgtccc  aggaacagcc  ccataagagc  tggtagaaac  aggagggagt  ccttgtcagc      360
aggcatcttc  gagctttttg  ttttgttttg  taaaaagcgg  ttaaccagca  agttacataa      420
aagcttattt  gttcccactg  aattttccac  acctcacacg  tgagtcccag  ccatgcagtg      480
cttgtgaggg  agcatcaccc  cttgccgcct  ggctgggcgg  ggccctgggc  tcagaggggt      540
cagccacaga  ggaagcgcct  gtcctgacgt  gtagcggcca  ggacctgggc  gctggagagg      600
ggccagctgg  gtgaagacgg  ctcccggggg  cactggcgca  cacgaggtgg  ggtctctgtc      660
cagcctgggt  aggcatgagc  tgagctcgag  tgagggccct  gcctgcccac  agcacggggc      720
cccagcgctc  taacccggcc  atttgcccgt  gcagcctgtt  gcgctgtccc  cacctgcggg      780
gcctgcagat  ggctgcgtgt  ggctcactaa  cctaaagcat  gtgtttcttc  cctctgctgt      840
ccaccgctct  ggtaggcact  tacctgggta  agtagttttt  gtgctactgg  ccagccctgg      900
gcgctgggcc  ttggcttgtg  gcaggtgccc  tgaggtatgg  ctgttcctgc  ttgggagcgc      960
cgcagatcag  gcacctgggc  ccccacctga  ccctgcccgg  cagagctaag  caaactggca     1020
gggaaaggct  gacccagggc  tccagggccc  cagtttggnc  cccaggggag  tgccccaagt     1080
taggaggcaa  ctgcaggtgg  ggaggggctg  gacaggctgc  ttctgttcct  taagggatgg     1140
gcctcagcta  agcagcgttt  ctggagctgg  caggttgctc  cgatgcccct  gggccctggc     1200
acctgactga  gttgagtatg  acgtcctgtc  ctctctgagc  tggtcctgct  gggagccgag     1260
ccatcctggg  accagctccc  acatgcacac  gcccacacct  acacgcaggg  cagtgggggaa    1320
gggcagtgag  tgggggaggg  cagcggcggt  cctgggccca  gctgggggtg  accaggagca     1380
tggaccccgc  ttcttggccc  aactcccgca  gtgccccttg  ggctcctcac  cctgcactgt     1440
gggaagtcag  aggcctctgg  caccccatcc  ccaagcacat  gccaaggtgg  ctggggccca     1500
cccagggcag  agggtggtga  cctgtttctg  gccggggctg  gcggctctct  cagagcctta     1560
agaaaaagcc  cggcctcctg  gtggggcagt  gccggccaca  gcgaggctgc  cctgcagagg     1620
ggcttgtgcc  gctgctggac  tgacagcctt  gcgaggcttt  gcttgcctcg  gcacggcagg     1680
caagtgggtg  gacagcg                                                        1697
```

<210> 3002
<211> 1132
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)...(672)
<223> similar to gi3183977 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3002
```
ctgtttgggg  aaccctacat  ctttgaagaa  cttctgagct  tgaagatccg  catctctcca       60
gatgcctttt  tccagattaa  cacagctggt  gcagagatgc  tgtatcggac  tgtgggggag      120
ctgactggag  tgaactctga  caccatcctt  tcttgacatc  tgctgtggaa  ctggtgtgat      180
tggcttctct  ctggctcagc  atacatctcg  ggtccttgga  tttgaattgt  tggagcaggc      240
agtggaggat  gcaagatgga  ctgcagcctt  caatggcatc  accaactctg  aatttcatac      300
tggtcaagca  gagaagattt  tgccagggct  gctaaagtca  aaggaagatg  gacagtcaat      360
tgttgctgtg  gtgaacccag  cccgtgccgg  actgcattac  aaggtgattc  aagccattcg      420
aaacttcagg  gccatccaca  cgctagtttt  tgtttcctgc  aagctccatg  gtgaatccac      480
taggaatgtc  attgagctgt  gctgtcctcc  agaccctgct  aagaagctct  taggcgagcc      540
```

1808

```
ctttgtcctg cagcaagctg tacctgtgga tttgttccct. cacaccccac attgtgagct     600
ggtgctcctc tttactcgat aagcagcctc ctagaagaca gcaggctatt tgttaaggct     660
gaagtttcag aaactttcag gtttggcata ttgctacatt gcagaccctg ggagcattac     720
agtggaaacc aatctttggt ttgtgaatag gaagaatcta ttaggcctct ggtctgaggc     780
agattttttt tttgagatag agtctcactc ttgcccaggc tggagtgtcg tggcgtgatc     840
tcagctcact gcaacctccg cctcccgggt tcaagtgatt ctcgtgcctc agcttcccca     900
gtagctagga ttaaaggtgc gtgccaccat gcccggctaa tttttgtatt tttggtagag     960
acagggtttc accatgttgg ccaggctggt ctcaaactcc tgacctcaag tgatccaccc    1020
gcctcggcct ctcaaagtgc tgggattata ggcgtgagcc accacacccc gccgcggctg    1080
acttaacctt agatttcaga ttcccttttca atcatgcccg tttgcttggg ct           1132
```

```
       <400> 3003
aattgacccg cgctgctgga attccgtacg aggcttatgg acctcggcca gctcagaggg      60
gtgcccgcat accgagtcca cgtataaaga gtcggatcac tgctcactgg tgatgccttt     120
acacatgtgt gactgggaga aaggacagga agatttattg tacagaccta agaaaccctg     180
acattcgggt gctaatttgt gaagaaaaag caccagttct caagatggag cttgatagat     240
cagctgatcc tcctcctgca atttgggttg caacaactaa gtctacagta aataaatgga     300
ctttgaaagg aattcataat tttagagcct ctggagatta tgacaatgac tgtacaaatc     360
ctataacacc tctttgtaca caacctgacc aggttattaa aggggtgct agtattattc      420
agtgccacat tcttaatgat aagagacata tattaaccaa agataccaat aataatgtgg     480
catattggga tgtattgaag gcatgtaaag ttgaagatct gggcaaagtg gattttgaag     540
atgaaattaa gaaaagattt aaaatggtgt atgtgccaaa ttggttctca gtagacttaa     600
aaacagggat gttaactatt actttggatg aaagtgattg ttttgctgcc tgggtttctg     660
caaaagatgc tggtttcagc agccctgatg ggtcagatcc aaaattgaat ttaggaggac     720
ttttactcca agcactcctg gaatattggc ctagaacaca tgtgaatcca atggatgaag     780
aggaaaatga agtaaaccat gtaaatgggg agcaggagaa ccgagtgcag aagggaaatg     840
gatattttca agtgcccca catacacccg tgatctttgg tgaagctgga ggtcgcacac      900
tgttcaggct gctctgccga gattccgggg gtgagactga gtctatgctt cttaatgaaa     960
cagtgccaca atgggtaatt gacatcactg tggataaaaa tatgcccaaa ttcaacaaaa    1020
ttcctttcta cctccaacct catgcatctt caggagcaaa aaccttaaaa aaagatagac    1080
tctctgctag tgacatgctc caagtccgaa aagttatgga acatgtttat gaaaaaatta    1140
tcaacttgga taatgagtct caaaccacta gctcttctaa taatgaaaaa ccaggagaac    1200
aggaaaaaga agaagatatt gctgtgttgg cagaggagaa aattgaactt ttgtgccagg    1260
accaggtttt ggatccaaat atggaccttc gaacagtgaa acacttcata tggaagagcg    1320
gtggagacct caccctccat taccgtcaga agtccacgtg aaggctgggc taatgctcct    1380
ggatattcat ttacgacctt cctctatggc cccaagagta gtcctaggaa gcccactgat    1440
ccccaacggg agcaagactt ctaacggttg attggtatgg accgagatta tctttcaatt    1500
gaagtgacta atcgagatgt aatatagaaa ccagtctcca tgtgtagatt aagctgtccc    1560
cagggaagca gagtgcaaga gcagaagagc cccaagcaga ctatgtcttt caagatgtac    1620
```

```
agaagactga caacaggcca gtgcagactt tgcttcctcc ttttgtttca aaggacctta    1680
tctacccatt aacacttgtt agagacacct cagtcgggcc acaactgtct ctgtttcaac    1740
tttaagccca cacactctgt agcttttcta aaacagtaca ttccattcat gcagtagata    1800
tgaaggcttt ttccaagttt gtcatataaa gtaatcaaat tgttttcacc gtttaagaca    1860
gttattttta atgggaattt gctgttgcac aatttgagaa ccagcccatt tcataataaa    1920
agattaatgt tgggcttgtt gttaatattg catctcagat gtgttcttgt aggaagatct    1980
gttgaaattc caggtgctgg atcatagcac ttggactgtt gggccggagt ttgtgcagcc    2040
catgcctagc gatgctgcac ctcccatgat gtcctggctt tgtggcaacc ccagggaggt    2100
gcagcagttt cactccttcc tccactgtgt ccagttttat ttacacaaag cgagctgaga    2160
ccacaggttc ttgctctgga tgagcagcat gacaccatca aaatttaaga ccatgatgaa    2220
atttcagttt cattcaaatg ttacctaaaa tttatggtgt cagaataaag ggagatcata    2280
gtgagttaat ttgatattca tatcctggaa gtatacatat ttgttttttcc aaagtttat    2340
atgcaggttt ttgttgtacc tgtatccaga tcttctttttc actgttctaa caatctaaca    2400
ctttcataga atcatttgga tcttggtcga cgc                                 2433
```


<210> 3004
<211> 2227
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2228)...(332)
<223> similar to gi1845577 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3004
```
tttttttttt tccgttttgt tatttaatca tatatttta cttgtatcta agccaggtcc      60
tttggcaatg aggaggtgtg cagggatcgg ggtgaggaag tgcaggactg gatggacatt     120
taaggtaggg cagctttggg ggatgccact tccaaatgca atggggacca tcactgtgta     180
ttccccatag ttgtgtggtg agcagctctg gataccctga ccacaaagct ttggggacaa     240
tttgttcacc agaagatgtg aggaggacgg aatactcaaa ggcactcaga gatggtggag     300
ctttggagct gaggcgggca aggcatctca gatggtcacg ctgtttctct accatgctgg     360
gtcaaaggta ctcacacggc aggttcagga ctgcattccg gacctcaatc tccttgtcca     420
tggaagccag ttcctcctgg aattgtctca gcacagcttg gggctcagga ccagagaaat     480
atttctcctc atgcatgaca ggctggcgtc tgccaaggaa ctttgtgaag gtcttttgca     540
tacgtgcctg gtggagattg ggcagtaagt ccactatatc cttctctgtc acatccttag     600
agatgggcgg gggcttctgc atggtgcatg ggccattagg gatccaggag taccagtcca     660
gctggcccag gtggttagaa gcatgctgac ctgtgcatgt gaagatgcac atggtgacaa     720
agtggcagag ctgagcccgg gactctaagg agatgaggaa cccctggtct tgggccctct     780
gcagtccagt ctcagtcatc tctctgcacc aggcctgcag ctctagatca tccttcatgg     840
cttggtcact attgtagaaa agcccaacca tcccctccac gtacctattc ccggctgatg     900
attccccaca gcctgatggc atcttagcca taaaaagaag atttcacatc caggagccca     960
cggtcagcca ggtcatcagg aggacagagg gaatgatagg tcaaacaagc catggctctc    1020
tgaagaatgt ccacgtggct tccactacca gtgctcacca ccaggtcaaa aattccccat    1080
tcggagacaa gactactctg ggccagcgtg ttgatcgcca tggtgtagcg gaagtggggg    1140
atcaggagct tgtagatagg atggaggcta ggcaagcttc tcattgtagc cacagcaata    1200
acctcagcaa tcaagtgtcc cctcagcaga tgtgactgta actgctgcag ctggaaatca    1260
gagctccgga cccaggtctt ggccaggagc caggccatgg ggggatgcga gggcagaaag    1320
agcagaggtg ggggacatcc gtgtcaaggt ggctggagct ggatgaccat gggtaagagt    1380
```
```

                                 1810
```

```
cctccatcag gctgaagctt cagcacgacc aaaggggctg ccacgcattg ctgcttaaaa    1440
atgatgacat taggcttgac tccatccagc aaggagaaat ccacttcaaa cagagatcca    1500
gcctggagtt ctttctccag ctgggtcttc aagtcttcca tccctggagg cagcaccagg    1560
caggctggga gccttgaaga acacctcagg agcatggggt ttgcaccatt gagaaactgg    1620
tacccaaaga aggcatcatt cttccaagaa tcataaaccc gctcagccag gacagtcttt    1680
ccatgtggga atattttttt gaaatcttcc agccttttca cacaatttat gaaatccagt    1740
gtccccttaa tggccaagtc cttcaaccct tttgctaggg agacattaaa gtctaaatcc    1800
ttatcctcga ggaatcgctc gtccctagga aggtccggtt gcctattccc tgctataggc    1860
aggattaacc catctttcca ggagccccac cagtaccctc aggcaggcag ataattccgt    1920
ggccctgcac ccagcggtag caggggaaaa aggccgcgcc ttgggtcccc gggccctgca    1980
ctgagatcca cttgcagaac cagtcgagac tcaacagcac gttgtgtttg cgcagcttca    2040
ccatcaggag gcgccccagg tgcagggga cgtcgatctc aaactctgcc tcctttcccc    2100
acaccggtgg cagctgcttc cctaggtctg cctccccgtg ctcgcccacc agccatagct    2160
gcaccaggtt gggagagccc gccaggagca aatccccggt ggctacgcgg accgtgtact    2220
tgcccat                                                              2227
```

```
<400> 3005
tgggcttcgg gcgacagtag caacaaccac aaaccacgag agtggctgga gatcgatttg      60
ggggagaaaa agaaaataac aggtgcagaa aataacacaa gtgccaagtg caggagtagt     120
ttcatgactg taaatgactc gcagttgaaa atacgcttat tgtttacata ggtgcttctc     180
tacctacctc caagttcttg aaatatttga aaatgtaaca aatctttaca ttctttctgt     240
gaaaagaatc tgtatgcaag ttgtaaatat ggatatatgg attagagaga taattcttca     300
atggtgaaat ctttatatgg tgtattgtca gtgtgaaaac attaatctgt gaagagattt     360
ttaaatgcaa ctaatataag ttggcctgtg agatgatctg aggtttcaaa tgagggagaa     420
aaaaatgaaa cttgaaatta taatagatgt tatatttaac aaacttttaa aaatagcctg     480
gtaaatatta ttttcttaca aggaattagg accacaggat ctacacagtc gaacttcaac     540
ttttatgtta agagttttgt gatgaacttc aaaaacaata attctaagtg gaagacctat     600
aaaggaattg tgaataatga agaaaaggta agaggtaacc ctagaggcaa gagaactgag     660
taggagaaca ggcctctata tattttcatc aatgtgttta cattaaatat ctcattaata     720
aaagacagtg aggccaagca tggtggttca tgcctgtaat ccccaagctt tgggaagcca     780
aggcaggagg atcatttgag accatcctgg gcaacatagc aagaccccac cactacaaaa     840
aaaaattttt aattacccaa atgtggtggt gcacacttgt agtcctagat acttggaagg     900
ctgaggcagg aagatcactt gagcccag                                        928
```

```

<211> 1031
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(294)
<223> similar to gi3002527 in the genepept database release 114,
 Run with FASTXY 3.3t00, default parameters

<400> 3006
```
ttttttttttt ttgagatgga gtcttgctct gtcgcccagg ctggagtgca gtggcgcaat   60
ctcggctcac tgcaacctcc acctcccggg ttcacgccat tctcctgcct cagcctcccg   120
agtagctggg attacgggcg cccgccacca cgcccggcta attttttgta ttttttagtag   180
agacagggtt tcaccgtgtt agccaggatg gtctcgatct cctgaccttg tgatccaccc   240
acctcggcct cccaaagtgc tgggattaca ggcgtgagcc actgcgcccg gccacattca   300
gttcttatca aagaaataac ccagacttaa tcttgaatga tacgattatg cccaatatta   360
agtaaaaaat ataagaaaag gttatcttaa atagatctta ggcaaaatac cagctgatga   420
aggcatctga tgccttcatc tgttcagtca tctccaaaaa cagtaaaaat aaccactttt   480
tgttgggcaa tatgaaattt ttaaaggagt agaataccaa atgatagaaa cagactgcct   540
gaattgagaa ttttgatttt ttaaagtgtg tttctttcta aattgctgtt ccttaatttg   600
attaatttaa ttcatgtatt atgattaaat ctgaggcaga tgagcttaca agtattgaaa   660
taattactaa ttaatcacaa atgtgaagtt atgcatgatg taaaaaatac aaacattcta   720
attaaaggct ttgcgtgacg cccgagtagt tgggattaca ggcatgtgcc accatgccca   780
gctaattttg tattttttagt agagatgggg tttctctgtg ctggtcaggc tggtctcgaa   840
ctcctgacct caggtgatct gtctgccttg gcctcccaaa gtgctgggat tacaggcatg   900
agccattttg cctggccaaa attaatactt tttatattaa atttacatat atatatatat   960
atgcgttttc tttttgatac cgggtctcac actgtcaccc aggctggagt acagtggcac 1020
aacctctgct c   1031
```

<210> 3007
<211> 885
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(789)
<223> similar to gi2723316 in the genepept database release 114,
 Run with FASTXY 3.3t00, default parameters

<400> 3007
```
atactggaaa aaaatcatac aaattggaag actgtggcaa aatcttttaa gtattgctca    60
aatatatcca gccataattc atactaaaga ttatgcctat gaacctaagg aagtttggca   120
aagcttatga atacacctca aactttccta agccttggag aaatatcagt gagaaacctc   180
agaaaactga acaatgtggc aagcccttta aatggttgtc acatcttact gtaggtaaaa   240
taattgatag tggagaaaat ctctacaaac aaagaatgtg tcaaaacttc taacatgctc   300
```

1812

```
atactttatg gcacataaaa gcgtttatac ttgaaaaatt atacagagtg tggaaaagcc      360
atttctatct gctcacatca tagtcaacat caggaagttc atacttaata aaattattat      420
aaatgtaatt actgttcaaa gaccttggaa aatataaacc cttaaaataa aaaagagtat      480
tctggagaca aacattacaa atataaagag ggttgtaata cctttacttg ccctatataa      540
tgtacagatt ttacactaga agaaaactct aaaggaatta ctcaaacttg tttggcatca      600
gagaatttat gttgaaggaa accgtacaaa tgtaataagt gtggaaaaac atttgttcag      660
aaactacagc ttacaaaaca ccacacagtt tataataaaa aatatttttg cagatggaat      720
acatatgtaa aaatatttag tcaaaattaa gtctttgtaa actttagaaa attcacggta      780
gggagaacta aggcactggc acttaagacg ttacactaaa tcagaatgtt ctgtaaagaa      840
agtaatccaa agctaaaact gttggataat ttatttgtat ataag                     885
```

```
    <400> 3008
gtggcgccgg gagcaaaagc agcatgatgc agctcatgca cctggagtcc ttttatgaaa       60
aaacctcctc ctgggcttat caaggaagat gacactaagc cagaagactg cataccagat      120
gtaccaggca atgaacatgc cagggaattt ctggctcaca caccaactaa aggactttgg      180
atgccactgg agaaagaagt caaagttaag cacttacttt tcattggatt gcttcataat      240
ttcttggtga tggaaaattc attcctaaag caacaagatt aaaggatgtt tgggtaagca      300
attagtttac ctgtcttttc tgggacctta cacggttcat ccatgattgc attttctttt      360
agaattggag tttaatgaat aaaaacttta atataatcta ctgattcttt atctcactaa      420
ggtgaaacac tcttatctta cagaaatatt tcccctttc tttgcttta ggttggcatt       480
gcaaatggta cggtcaccga acaggctaca aagaatgccc tttctttatc aaagacaacc      540
aaaagttaca acagttcaga gtagcacatg aggatttcat gtatgacatc atacgagaca      600
ataaacaaca tgaaaagaat gtaaggatac agcagttaaa acagttactg gaggattcta      660
cctcaggtga agataggagc agctccagtt cctctgaagg taaagagaaa cacaagaaaa      720
agaagaagaa agaaaagcat aagaaaagga agaagaaaa gaaaagaag aaaaaacgga        780
agcacaaatc ttccaagtca aatgagggtt ctgactcaga gtgacaagga tgtgacttgt      840
tcaacattct cttctcaaac actgaccaag gaacagagga agatgcagtc agagaaagca      900
gcaggataga gacgccgaga gaggagtata tgtgggtcac agcagtgagc tcccacccgc      960
cttgcagtga agatgtgacc ccaggagagg gagtgtctcc ttccaggtgc tagctctgga     1020
cagcagctga ttttaggcag gaaagtttct tcatcgttgt cctccctgct ggtcacatga     1080
gtttacgatt cctttgaagt gtctcccaca gggtggcagg actggg                   1126
```

<210> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(2014)
<223> similar to gi4589536 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3009
gaagaaggag gaggaggccc gcgtcgcctc cggcggggct cgcgctcgcc ccgcgctcgc   60
cctccgcctc gcccgagccc cgggagggtg aaacgctttc tcccagcatg cagcgggagg   120
agggatttaa caccaagatg gcggacggcc cggatgagta cgataccgaa gcgggctgtg   180
tgccccttct ccacccagag gaaatcaaac cccaaagcca ttataaccat ggatatggtg   240
aacctcttgg acggaaaact catattgatg attacagcac atgggacata gtcaaggcta   300
cacaatatgg aatatatgaa cgctgtcgag aattggtgga agcaggttat gatgtacggc   360
aaccggacaa agaaaatgtt accctcctcc attgggctgc catcaataac agaatagatt   420
tagtcaaata ctatatttcg aaaggtgcta ttgtggatca acttggaggg gacctgaatt   480
caactccatt gcactgggcc acaagacaag gccatctatc catggttgtg caactaatga   540
aatatggtgc agatccttca ttaattgatg gagaaggatg tagctgtatt catctggctg   600
ctcagttcgg acatacctca atagttgctt atctcatagc aaaaggacag gatgtagata   660
tgatggatca gaatggaatg acgcctttaa tgtgggcagc atatagaaca catagtgtgg   720
atccaactag attgctttta acattcaatg tttcagttaa ccttggtgac aagtatcaca   780
aaaacactgc tctgcattgg gcagtgctag cagggaatac ccacagtcat tagccttctt   840
ctggaagctg gagctaatgt tgatgcccag aatatcaagg gcgaatcagc gcctgatttg   900
gcaaaacaga gaaaaattgt gtggattatc aaccacttac aagaggcaag gccagcaaaa   960
ggatatgaca atccgtccct ccctagaaag ctgaaagctg ataaggaatt tcggcagaaa 1020
gtaatgttag gaactccttt cctagttatt tggctggttg ggtttatagc agacctaaat 1080
attgattctt ggctcattaa agggctaatg tatggtggtg tttgggctac agtacagttt 1140
ctttcaaaat ccttttttcga tcattcaatg catagtgcat tgccccttgg gatatatttg 1200
gcaaccaaat tctggatgta tgtgacgtgg ttcttctggt tttggaatga tctcaacttt 1260
ttatttatcc atcttccatt ccttgccaat agtgttgcac ttttctacaa ttttggaaaa 1320
tcttggaaat cagatccagg gattattaaa gcaacagaag agcaaaagaa aaagacaata 1380
gttgaacttg cagagacagg aagtctggga cctcagtata ttctgcagta cctgtttgat 1440
acggaaaacc ggtgagggtc caaacattgt ggtgtgtggc aaccgctggt ataggcaaaa 1500
tttgatcatc attgcccatg gggtgggtaa ctgtgtaggt gcaggcaacc atagatattt 1560
tatgggctac ctattcttct tgctttttat gatctgctgg atgatttatg gttgtatatc 1620
ttactgggga ctccactgtg agaccactta caccaaggat ggattttgga catacattac 1680
tcagattgcc acgtgttcac cttggatgtt ttggatgttc ctgaacagtg ttttccactt 1740
catgtgggtg gctgtattac tcatgtgtca gatgtaccag atatcatgtt taggtattac 1800
tacaaatgaa agaatgaatg ccaggagata caagcacttt aaagtcacaa caacgtctat 1860
tgaaagccca ttcaaccatg gatgtgtaag aaatattata gacttctttg aatttcgatg 1920
ctgtggcctc tttcgtcctg ttatcgtgga ctggaccagg cagtatacaa tagaatatga 1980
ccaaatatca ggatctgggt accagctggt gtagcgacat cttatcctat gaagcatatt 2040
gctgagtggt gcctgaaaat tgtgtctgtc cgtgtctttc tcacactcga atccacatcc 2100
tttgaacaag agcatgctat gtgtagggct aatggtgaat tttacagtct ttttttcaac 2160
actttattta acaaaagtaa acatggacag aacacactgc catctctggg aagagtaaag 2220
atgat   2225

<210> 3010
<211> 3289

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3134)...(1463)
<223> similar to gi2239126 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3010
```
gctggccttt tgctcacatg ttctttcctg cgttatcccc tgattctgtg gataaccgta      60
ttaccgcctt tgagtgagct gataccgctc gccgcagccg aacgaccgag cgcagcgagt     120
cagtgagcga ggaagcggaa gagcgcccaa tacgcaaacc gcctctcccc gcgcgttggc     180
cgattcatta atgcagctgg cacgacaggt ttcccgactg gaaagcgggc agtgagcgca     240
acgcaattaa tgtgagttag ctcactcatt aggcacccca ggctttacac tttatgcttc     300
cggctcgtat gttgtgtgga attgtgagcg gataacaatt cacacagga aacagctatg      360
acatgattac gaatttaata cgactcacta tagggaattt ggccctcgag gccaagaatt     420
cggcacgagg tttttttttt tttaagtggg acaattaaaa atttaaaaaa taattttaaa     480
atagaacagc ttagagatag gaaacctaaa tttatttccc aattccttac tgtgccccca     540
aaaccagggt tcaccaaaag ggctgtcctc ccaacaattt tctgaattct atatattcag     600
cattaaattc catgataaag ttggaaatcc attcaccatt tgtaatacat attgatgcat     660
ttaataaaat tgcatgggcc gtatcttttg catttctgta tcctagtatt aagtacagtg     720
cctaccacag gccaggttct caatacttga ataaatgaca caaaaatagc caggaccagc     780
aagtttttc tgggtgggct tcatagaatc tctgtacttg ctggaatcac catgaaatcc      840
atggtcttca gctttgcatt ttcagcaaca tagttatatt gagttatcct caggtgagca     900
gtgagaccct tgggagcgga ttcatggtag ggtggctttg taatgtgtca ccttggtgag     960
gctatgtttc ccggaactct cttccagtaa gatgggccac aagagacatt ttgcttgata    1020
accggagggc ggaagtgaag cagcagcaca ttgtttttac acttggaagg ttggtgctgg    1080
ggcaccaggc gttgttgcag ttcacacgtt gccatgtatc tgctagatca cctcgttggt    1140
gtgggcagta gtcaggcctg cagccaggcc tgcagctgct ccaccttccc caggatcatc    1200
ctttcagctt ctctaattcc tgggccagat gcatatttaa ctctgtgagg aagggcacca    1260
gcttcttctg caggacaccc acatcatcga agctggaggt ggtgagagac tgacatgggt    1320
tccaggccat cctcgtgggt tccagctcgt gctcgtgggc tccactgtgt cctcggtctc    1380
ccacacttta catccatctt cccttcccga gtgcctgccc tgcagacttg aatcctacag    1440
tctgtagaag cctccagtca actgctttct agctccaggt tttttaaggt ctttggacct    1500
tggcaaccag actgctgtat ctcggaagcg ggttccaccc aggctgaaaa tctccgtgat    1560
cacgggtgtg ccagcccctc ctgcctcttc ctctggggcc aatttggagg cagaatcatc    1620
cttgttctcc tccttgtcct cctctgggtc aggtggctct tgcttcacag aaggcaggcc    1680
tgggtctact gccttgctag ggcagccagg caccaatacg ggagaagtca ggacagctgt    1740
gcctggtgtc cactcgtcct gggtatccgc cttctcttgc ttcacctggg gtaaggccac    1800
aacccaactc atgccagaac actgggcatc ctgcaacagg gcttctgtgg aagctgcaac    1860
agggcccggc acctgcacag gaatgcttgc gcccttcccg taaaaaacac aaggttcagt    1920
gcccaggcgg gggcagcaca aagccaccac ctgcttcctg cttcgttgga gcctgggtat    1980
ggtctggttg ggctgtgcgt gtagccaagg tgggcttcaa ggtagggcca agatggtgcc    2040
gtcgggcaga gctgggcctc tttcgacgac ggtaaggtgg gggcgatcct gccccatcct    2100
cagactctga ccagacactg ggcagcagcc gcttcatggc aaactgcagg cattggcgcc    2160
aacgacactt ctggcgcttc tggttgctgc ccccgaattt gggcttgtcg cagcagaagt    2220
cgcagcggcc acatccattc cgccgtaggc aggctgcaca ggccccgcac ttgcggttct    2280
gccggcggtt cgtgtagggc tgtagctcgt cctcgtctac acagtaatag atgaactcgg    2340
caggtggcga gggggccagg gctctggggt gcggctctgt gggctctggg gactgtgatg    2400
ggggtggtgg aggcagtggc tgggctccgg ggcgccgcct ggcagccatc ttggagtcac    2460
agcctccctt gcggcgggca tgtttacccc gtaggcaacg tcgctggaca catttccact    2520
ggcgcctgag accagggcgg ggaggcgaa ggcagatggg gcaatggcca caatcatctt     2580
gggtctgaca gccccggcat actccacacc ctcggctctt aaacattctc tgttcccggt    2640
```

```
tgaaggcaat tctctgtgct cgacagtctt tgcacaacgt tttgagccgc tgcctttggg    2700
tgccatcccc tgagaagctg attccacagt tctcacagca cccaggagca gggaatgaag    2760
ctggggctgt gtcagtgtca gccttggtct catccctcgg ggcctccttc ctgacctcac    2820
cactctgggg tccaacctga cgtttccgag tcttggctgg ccttgaaggc ttctttcgct    2880
tcttgctggc aaccgccacg ggatgggcct tgggggctgg atagcacaag atgccttgtt    2940
tgaagtcgaa gagggtgaga tcacacgcag ggcccaggta tcgagtcagc tcaactttgc    3000
ttcggatcct gtctcctgtg gggctctggt aataggtgtc tgagcgtcca caggtggccc    3060
ctgacttgcg aaagacttcg cggcgcttcc agccagggcc cagggccggg cagtccagcc    3120
agtcctcagc catggaggcc acaggaagca gcagtagcca gtttggcacc aggccggtat    3180
cttccgccac tctaggcccg tggacccatg gcgagggtcc ctcctgcacc tcccgcctcg    3240
ccctcctccc cttcctcctc ctccgcggcc gggggggagta tcacacaaa              3289
```

<210> 3011
<211> 3233
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3234)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3233)...(1284)
<223> similar to gi517115 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3011
```
gcccttaaaa attttttttt tccctaaaac cttaaaattc ttgaggggggg ttgggccaaa      60
aagttcccccc cccaaaaaaa gggtttcttc caaaaattcc caacgagggt ttaaaaaggc     120
cccccaaaaa gaaaaaaaat aaatcttccc ccccccggtt aattttggcc cccccagggg     180
atctttaaaa gggcccccccc tttttgtttt tttattatca tcttttttggt ttttttttttt    240
aaatattaaa acaataaatc tttattaaac agttttcacg gcattttaaa ataaatttaa     300
aaaataaata tttgcattat agcagaaagt cacatgtatt gcatcaactc acttttacaa     360
tttaatggca tgagacaact aagcatcagc catcaataat tttgaaagct ataacccagt     420
attcaaggaa atagctctaa agcactgcag catcaataat tttgaaagct tgtttcttaa     480
gattggtgct catagtagcc aatgtttctt tttattactg ggcaactgtg ggagacagag     540
ttcttccagt actaaatatt aataaggttc tctgatcgac aatcccccat ctatcagtgt     600
gtcagggatt cacaaaggaa aaggaactgc agggttatgt aggtatattc ccctatctgg     660
tggatttagg tttgcacaaa gacacttatt ctagcaaaaa agaaaagata gtgtttccac     720
catggctacc tttttttttct ttttatagag tctcagagta agatttaaat cataattttt     780
aacctttaaa agtctgttca agttcaatta caaccataga aactgtactg gtatcagaac     840
ataactattt tattacaaaa cttaacatta tttacaaaat gaaaaaataa tcaaatgact     900
attgcaggcc aaagttaaag gtttctcact caatgattga agaaaaatta agcaatattt     960
ccatgcactc acaccagatc atttctgaaa tatgcaaact cttaaaattc atgttagtaa    1020
aactttaatg tattcataat acttgctatg tttattagaa gatggtcaaa aaaaatccat    1080
ggttctgtac aataatatta acagtttgtt cattttcctt taatattttt tggcttccat    1140
gaacactcgt agattgaaca ttctgcaagt aagaattata atagtacctc tgtcaccttg    1200
ctgaattcat caccacaaga aaaacacaaa tagtttaatg ctttttgcact aaactgaata    1260
```

1816

```
gttataactc caaagttata ttaaactgaa gccttcattg tgatcaatag cttggatcag   1320
tttagagcgt agagtttctt tttctgtata ttttggaaga tccagaagat taaaacaagt   1380
atgggaaact gggagatact cctcaccacc tcctgtggac tggatgacta gtttcagact   1440
cttcatacca agaataggaa tgcgatcact acctgtcaaa aataacagaa actgtttctt   1500
ctttttccaat ggtaattcgt gaaatacttc ccaaaaaatt tttatcgtag gatgttctgc   1560
ccaatattcc cctttgtatt ctgtattctt ttccagttcc ttccaatcat aatttgtatt   1620
tccaatgacc attgcttgta gttcattagg ctgaaagagc agaaggactt ttcctccaca   1680
gaccttatga aagcccgcat gaaaagcatc aaataaggaa gccactgatt tattgaatat   1740
gtaatccaca taagcatcga caaactcttg ccgatttgt ttgttaacag ctgtgtctgc    1800
accatttaga accagctctt tcacttctgt tgcaccaaag ttttcaactg tgatcgtaaa   1860
attaagacaa aatgtttcct ctatgtcatc ttctggataa tccagtaact gttgcatgct   1920
tctcccaaca tcaggcatta gttctttcaa atcatccaag gatggcttct ttttcagtag   1980
tttcttatat aaagccaaag gaaaatggag gtccacaatg gtacaattat aaattgctaa   2040
gccacagata ccaccaatca aatggaacaa atctctgtct tcaaatgtct tatcagaaaa   2100
ccaaatgagc ctggaatctt cataatacct aaacatgccg tatttaggat ccaataattc   2160
cctcatgatg agcaagaaaa attctttgcg cacccctcct gcatccacag catcttctcc   2220
aacaaatata accttgagtg gcttcttgta atctatgttc tttgtttttcc taaggacttc   2280
cattgcatct cctacaatat tttctctacg caccactaga attaagcagg gattcacaga   2340
ttcaatcact gggagaaaaa gagaggagac attctgcctg tgggcctgat caatagccat   2400
ctgcatctgt aagactgcat cggtctgtaa cagagtagtt tttgcttggg catcaaatac   2460
aaatggatat gtacagattg taacagggat atctgccaac attccatagg cctgctgttg   2520
gacccagttg atataatcat ttcttatgtc tatcaattct tgtacttcat gtatataaaa   2580
tttatcatac tgtataatct gtcccatttt ctcatttacc ctatgtagta tttctaaaac   2640
ctttaatgca gtatgaagaa aactgttgaa aattcttctt tcagaagggg gaataccgat   2700
cttgtagagt ttcaaagat gtaccacaac ttccttaaaa agttctacta tcttgaggaa    2760
tagtggaggt tcaagtactg accaccagtt ttcaagtact ttcaggggtg ccttttctag   2820
gttcacaaga gctgtaccaa agggaattgc tattgctgag aaattggtgg aatcactcat   2880
caggggacat tctggtagag taagataaaa cctcaatgcc tcaacatcag gtaaggagct   2940
agtcagttta ggaaataaga ttctttttcca aactaagctg ccacctgctg agatatctgc   3000
ggatgatcag gttgtataag tttgtggaat aaaagcctag cagcattcat atcaacccct   3060
naaaatctgg tacctgttct atagtgatca tcattgctaa cagctnaaaa acttccattt   3120
aggcaaccag aggaagaaaa cgttccatct atctcattgg ctatctccac aggaaacctt   3180
ccagnaggat agctcagcca tttctgaatt agagcttcat tcactgtcca gat          3233
```

```
        <400> 3012
tttttttttt ttttaacttc tgaaaaatat ttattcttgt ttgatgaaag caacgtttct    60
cagcaatgca tttttaaaaaa tattttagcc ggtaaattaa aaagggccca taatgtaccc   120
ctggcagact tcagcatata ccaaatttta aatttaaatc agcttgaatt cagtggggta   180
tacaaatcaa tcattttagt tgttttaggg cttttttattg aataggaaaa aatataaaca   240
```
```
                              1817
```

```
atgttgtagg agtaatgaga aatcctccca cactggaaaa aaaactaggt agttttaatt    300
tttttgggga tcatattttc tgagggtgta actggctttc attagatgat catacttttc    360
ctgacatttt tacaatgtat tctttcttta aatataaaaa cctgacaagg ataaatatag    420
tgtttcaact tcttaggcct atttgtggat ttttctgttt tcctctgacc catcattgga    480
ttctataaaa aagtgccggg gccaaggaaa caatagttag gaggtaattc ttcctttagg    540
gtcctttcag cagtcttgcc aagcaagcat gtatcattcc tgatgtactt ctaccagttg    600
acagcaagaa gaatatcacc acatctaatt cttccatcat tgtattgctg tgttccttca    660
                                                                    680
caatggattt gatgaaaaaa
```

<210> 3013
<211> 4280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4281)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3)...(2452)
<223> similar to gi5262678 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3013
```
aagaaattgc aggtgctgca gcagagaaca tgttaggcag tttgctgtgc ctcccaggtt     60
cagggtcagt gcttcttgac ccctgcactg gttctaccat atcagagaca acaagtgaag    120
cttggagtgt agaggtattg ccaagtgact cagaggcccc agacctaaag caggaggagc    180
gtctgcaaga actggagagc tgttctggac tgggtagcac atctgatgat acggatgtca    240
gggaggtcag ttcccgcccc agcacaccag gcctcagtgt tgtgtccggc ataagtgcaa    300
cctctgagga tattcccaat aagattgaag acctgagatc tgagtgcagc tctgattttg    360
ggggtaaaga ttctgtcact agtccagaca tggatgaaat aactcacgat tttctttata    420
tacttcagcc aaaacaacat tttcaacaca ttgaagcaga agcagacatg agaatccagc    480
tgtcttctag tgcccaccag ctgacctctc ctccttctca gtcagagtct ctgctggcca    540
tgtttgatcc actgtcttca catgaagggg cttctgctgt ggtaaggcca aaggttcact    600
atgctaggcc atcgcatcca ccaccagatc ccccaatcct ggaaggagct gtgggaggaa    660
atgaggccag gttgccaaac tttggttccc ccatgtttta actcccagct gaaatggagg    720
cattcaagca aaggcattcc ttacccctga gagactagtt cgaagcagga gctctgaata    780
tagtatcttc tgtccggaga cccatgagtg accccagctg gaaccggcgt cccaggaaat    840
gaagagcgag aactccctcc agctgcagcc attggtgcta cttctttggt ggctgcacct    900
cattcatcat cttcatcccc gagtaaggac tcctcaagag gagagactga agaacgcaaa    960
gatagcgatg atgagaaatc agacaggaac agaccttggt ggagaaaacg ttttgtttca   1020
gccatgccta aagctcctat accatttaga aagaaagaaa aacaagaaaa agacaaagat   1080
gatctggggc ctgacagatt ctcaacactc acagatgatc ccagccctag actcagtgca   1140
caagctcagg tggctgagga tattctggac aaatacagga atgccattaa acggaccagc   1200
cccagtgatg gagcaatggc aaactatgaa agtacagagg ttatgggtga tggtgaaagt   1260
gcacatgatt ctccccgtga cgaagcactg cagaacatct cggctgatga tctcccagac   1320
tctgcaagcc aagcagccca cccgcaggat tcagctttct cttacagaga tgcaaaaaag   1380
aaactgaggc ttgctctttg ctctgcggac tctgttgcct tcccagtgct gaccccattc   1440
```

1818

```
aacaaggaat ggtttaccag accacacaga cccagaagac aatgaaattg tatgcttctt      1500
aaaagttcaa atagctgaag caattaattt acaagataag aatctaatgg ctcaacttca      1560
agaaacaatg cgctgtgtgt gccgttttga taataggact tgtaggaaac tgctggcttc      1620
gattgctgag gactacagaa aaagagcccc atatattgct tatctcactc gttgtcgaca      1680
aggactacag accacacagg ctcacctgga aaggctattg caaagagttt tgcgggacaa      1740
agaagtggcc aatcgatact ttaccactgt ctgtgtgaga ttactgcttg agagcaaaga      1800
aaagaagatc agggaattca ttcaagactt tcagaaactc accgcagctg acgataaaac      1860
tgctcaggta gaagattttc tgcagtttct ttatggtgca atggcccagg atgtcatatg      1920
gcaaaacgcg agtgaagaac agcttcaaga tgcacagctg gccattgagc gaagcgtgat      1980
gaaccggatt ttcaagctcg ccttctaccc taatcaagat ggggacatac ttcgcgacca      2040
ggttcttcat gaacatatcc agagattgtc taaagtagtg actgcaaatc acagagctct      2100
tcagataccca gaggtttatc ttcgagaagc accatggcca tctgcacaat cagaaatcag      2160
gacaataagt gcttataaaa ccccccggga caaagtgcag tgcatcctga gaatgtgctc      2220
tacgattatg aacctcctga gcctggccaa tgaggactct gtccctggag cggatgactt      2280
tgttcctgtg ttggtgtttg tgttgataaa ggcaaatcca ccctgtttgc tgtctactgt      2340
gcagtatatc agtagctttt atgctagctg tctgtctgga gaggagtcct attggtggat      2400
gcagttcaca gcagcagtag aattcattaa aaccatcgat gaccgaaagt gaccaagacc      2460
aaggcccacc aaggcagcag actgttaatc agacaaacag atctctgaga aggtgcatca      2520
gctgctttga aggctgaaga ttgttttgta tgatactgca cagcatcagg cattttaaag      2580
cagatcttta ctaaacaggt taatgagcta acaagcaggt tctctcgtct ttgggctctt      2640
tcctttctga gttgcatatt ctattttctt gtccccaagt agagactagt actacaaaaa      2700
gggaccacat tttttcaagta tttctaagta taaaaaacaa aacaaaaatc tcttaggaaa      2760
tgtctagacc tccattcttg gattcccttt ctttcctttt attttaaaaa agaacagtac      2820
ccctctttta agatgctgtc ttacattaat gagcatctaa tggaaagaag gtatgagttg      2880
cactgaggat tagaatagtg gtgcgttagt ggcattatct ataaatacac tcacctaaat      2940
tgaaagctaa gaaggaaatg taaatataat atatatttat atttgatgta atatggacat      3000
ctgcagattc taataaacaa ggactattgc tgatagtagg ctgtgacata ctgtcttgtg      3060
aaatggtttc cttgacaaaa tttaagctga gcttaaaagc aaaaaaacaa aaagtacaca      3120
gaaatattta ttaaaatgta atacagttta ttgaactttc taggtatgga gtttgatgga      3180
cagggctgcc tttaatgagt gtgaaggtca ctaagtcact tagacatctc accgtggaag      3240
tttgtgagcc tgcattagga gatagactga ttaccataca tgacataaaa aggaacagtg      3300
gatagctcat actttatggt ggttcttctc ctccgaaata atatactgca gaaatcccag      3360
acagagctcc ttacaaacct ttaattgtaa tatatttttg atgattattc acattgaatg      3420
cacagaccaa gaattcagtg aatgtcattt tttaaaaaac taatttgtat tgtctgctct      3480
agtgatacaa gttttactag tgataaacta ttttaatcaa ccatactatt cttatggaaa      3540
aaaatatcta ttttggcagg tttctgtgcc tttatttccc tcttctgaaa aaaagtctgt      3600
gttttcatag tttggtttgc attgtatatc aataattaat caggaatggg ttttggtgcc      3660
tgaaaaattg gccatggagg cacaccaaag cttcaagcac aagtcttgta catgggccat      3720
cactgtctgg tttcacttcg tgtgtttcct aaacacattt agctgctttt ttaacaaact      3780
cagccccata cttgagtccc ttgttgttgg gagcatttcc aggcatcttt taagggaact      3840
gtgacaaaca gcctcgggca gatgaacacg gaggctctct gttgtctgtc tctgagatct      3900
ttgtgtctgg gaatgcctaa agattttatt ttttttcttt tggttttatt ttatttattt      3960
ttattttttt gagacagagt ctcaccctgt tgcccaggct ggagtgcaat ggtgcgatct      4020
tggctcactg caacctccac ctcccagttc aagtgattcc cctgcctcag cctcccgagt      4080
agctagggac tacaggcgca tgtcacccaa gcccggctaa atttttgtat ttttagtagg      4140
aaacggggggt tttcaccatg ttgggccagg gtggatcctc aatctcctga acctcgtgga      4200
tccacccgcc ttngggcttc ccaaagtgcc gggatttaca agcgtggaac cacctgnccc      4260
agccagaaat taggattttt                                                 4280
```

<220>
<221> misc_feature
<222> (1)...(1196)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1034)...(414)
<223> similar to gi3170539 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3014
```
tttttttttg agacggagtt tcactcttgt tgcccaggct ggagtgcagt ggcgtgatct    60
cggctcactg caacctccgc ctctcaggtt caggtgattc tcctgcctca gcctcccaag   120
tagctgggac tacaggtgcc tgccaccact cctggctaat tttttgtatt tttagtagag   180
acgaagtttc actatattgg ccaggctgct ggtctcgaac tcctgacctc gtgatctgcc   240
cgcctcggcc tcccaaagtg ctgggattac aggcatgagc caccacgccc agcccctgca   300
agcagtttct ttaactctgt tgggatgcca ttcgtgggca aagctagatt tgggacaagt   360
tgcccagctc tgctaggaag agtcagtcct caggggaag tttcttttca cctccgggat    420
ccccagggct tcctgggttg actcaggact tcatacgcag cctggatctc caggaagtgc   480
ctctgtgcct cctctgtctg gtccaggttg tggtctgggt gccagacctt cactagctcc   540
tggtaactcc gatgtatttc ttcatttgtt gccccttctg agaggcccaa aacctggtaa   600
gccagctgac gcttctcatc ctgaaaactg tgaacaaact catagagctt cgcccactcc   660
tgaaagcagc tgctgttgaa gccagtctcc cccatcagta gcctccagat ccggtaaggc   720
agaaggagga caaactccat gaggcggcca agaaggggga agaagctgaa ccaattcaag   780
aaggagccaa aggtttctgc cacatagctg agggtggcag ctgtgttgca gagggcactg   840
tatgccagtg ggcctgtgaa agcaaggtaa gccaagccca gacgatagag ccgcacactg   900
agcggctctg atgccaccaa agctttgtag cggcgatgcc tctgagctgt aatgctggcg   960
gccacgctaa tgggcagtat ggctatgggg cggccataga agataggtga agtgagaaat  1020
gctgacccca gagtgttctt aaagtctgag gtctggttgc caacagcagc caccagcaag  1080
accctaagc caactgccag tgggagggcc acaatataga agttgaccat ggaagaaagg  1140
cgaattccac cacatggact agggatctcg accncntgga ctagggactc aaacc        1195
```

<210> 3015
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (39)...(699)
<223> similar to gi2662600 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

1820

<400> 3015

```
cagctacaaa atttggcttt tacccaaact agaaaaatca gggaacccca gactcaggcc     60
cagtagagac cccaaagaag cagagaaggg tcagttcact gaggggccac acctgcccca    120
gggccaggcc actgtccatc ctggtgccac caccaccctg ctggcctggc ccccccaac     180
cagacagcag tccccaccca gcccagcacc ggtaaccttg agaatagggg ccaatcaaca    240
gggggggccag gagcccccaa ggtgcagggt gcactgaggg ccccaccggc cctgctgaac    300
acaggcctga caccacctct ctccttcaag gccaccgacg ctcttgggag gcagtcagtg    360
ccgtctccct gcgtcactgg cagaagactg aggctcagag gggcagagtg acctgccttg    420
accacccacg cacgtctatg ccggagcacc aggctgcccc agcggctcct cccggccttt    480
tgcagcccca tcgcccaccc acatggaaca tggctggggt ggactgcagg gatggagctg    540
gggcaggaca cagccctagg agcacctgcc tggcgccagc ttttgctgac ggcagcccaa    600
cagcccccag ccacgtggca aagcgggtcc ccacgcagcc ctggctgcag ctgctccagg    660
ggtggcctga gacttctcaa agaagatgct gtgcccggtc ccccggaacc cctacttggc    720
cggacgccgc tgatggtgcc ggacgcgggg tcgcacggga attcgtgccg gtntnaaggg    780
tatcaggncc cgc                                                      793
```

<210> 3016
<211> 1407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (77)...(800)
<223> similar to gi330442 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3016

```
tttttttttt ttcttgccaa ttttttctatt tttagggggt agagacgggg tttcaccatg     60
ttgcccagcg ttcctcccgc cacggctttc caaagtactg ggattacagg catgaaccgc    120
cgcacacacc acttgtatct cctatgcccg tgtcaagcag cagcagggcg gtgggaacgg    180
ctgcacctgc actgtggcag ctcgcaggcc tccctgacgt ccaggcggag gctttctcaa    240
gtgtgggtgc cttgggtccg acccaggacc ccctccccag ctcccgtcct gtggaggaga    300
ccccaccatg cttcctcacc accggctgga gatgtcctga cccccctgccc actgcgccct    360
aacattactg actctaaacc agaacccagt gcccaccctg tcctcaccgt cctcacccca    420
cggcattctg agtgagggac gcccaggccc acccactccc tggactcact tctgtccccc    480
cgagagacct tgcccgggac atgtacccac ctatgccctc tactgcccac ctcagccctg    540
tgggacccag tggtgaggag gggagtcctc acggccagcc aaggacagga tggtgacgag    600
gggcagggga acgagggcca ccaggccttg gctcatgatg cctccaaatt ccccagggcc    660
tccccagagc ctggacaccg ctgcatggca gggtgggtgt agcctgccag ccacatgtcc    720
tctgccccac ccctcgctgg aaatgcctgt cccgatatgg cccacgggtc ctgccgttgc    780
ccctcaccat gctccctgat gtgtccaggc tggcctgggg gtcgtgctac ctgaggcggc    840
agagctgagc caaggtccag gaccagtttc aagagggtgg gccaggctcc tctgagtcca    900
tttctagggc agccctgca ccccttgccgt gctggactcg gtggggacgt ctgggtggct    960
ctctgcaggt gacacacgtg ctgtggctgg ccaggtgggt ggcaggtatg tgggggtgga   1020
gctctcagct ctatcactgc caggccctgg ggtgatgctg ggcagagctg tccctgcgag   1080
ggccctcgga atccaggagt tgggcgattc cgggatggtt ccagagcttc caaacccaca   1140
```

```
tccagcccag gatgtgagaa gcagcccata aaggcctgag ccaggctgtc ctggtggggc   1200
aggtactgtg ggccccgcct gcccagctga caggaggcag ccagcggatg cccgggtggg   1260
aggggctcga gctctcaggg tgtcccccag ctaggactca tccagggcag ggacccctca   1320
tgggaggatg gggagtcaca tggtgcccag gacccccgac tgaggactgc agcagacccg   1380
tcacagcaaa cggagtggag gcctgtt                                       1407
```

```
        <400> 3017
tccttcttgt cctggtcgtt gttcccgtct gagtaccagc tccccactgc cctgagggcg     60
ggccggcctg cggcggaggg aaaaaggaag aggagaagga aattgtcccg aatccctgca    120
gtgggtccaa gcctctcccg ggtggccagt ctttctgtag gttgcggcac aacgccaggc    180
aaaagaagag gaaggaattt aatcctaatc ggtggaggtc gatttgaggg tctgctgtag    240
caggtggctc cgcttgaagc gagggaggaa gtttcctccg atcagtagag attggaaaga    300
ttgttgggag tggcacacca ctagggaaaa gaagaagggg cgaactgctt gtcttgagga    360
ggtcaacccc cagaatcagc tcttgtggcc ttgaagtggc tgaagacgat caccctccac    420
aggcttgagc ccagtcccac agccttcctc ccccagcctg agtgactact ctattccttg    480
gtccctgcta ttgtcgggga cgattgcatg ggctacgcca ggaaagtagg ctgggtgacc    540
gcaggcctgg tgattggggc tggcgcctgc tattgcattt atagactgac taggggaaga    600
aaacagaaca aggaaaaaat ggctgagggt ggatctgggg atgtggatga tgctggggac    660
tgttctgggg ccaggtataa tgactggtct gatgatgatg atgacagcaa tgagagcaag    720
agtatagtat ggtacccacc ttgggctcgg attgggactg aagctggaac cagagctagg    780
gccagggcaa gggccagggc tacccgggca cgtcgggctg tccagaaacg ggcttccccc    840
aattcagatg ataccgtttt gtcccctcaa gagctacaaa aggttctttg cttggttgag    900
atgtctgaaa agccttatat tcttgaagca gctttaattg ctctgggtaa caatgctgct    960
tatgcattta acagagatat tattcgtgat ctgggtggtc tcccaattgt cgcaaagatt   1020
ctcaatactc gggatcccat agttaaggaa aaggctttaa ttgtcctgaa taacttgagt   1080
gtgaatgctg aaaatcagcg caggcttaaa gtatacatga atcaagtgtg tgatgacaca   1140
atcacttctc gcttgaactc atctgtgcag cttgctggac tgagattgct tacaaatatg   1200
actgttacta atgagtatca gcacatgctt gctaattcca tttctgactt ttttcgttta   1260
ttttcagcgg gaaatgaaga aaccaaactt caggttctga aactcctttt gaatttggct   1320
gaaaatccag ccatgactag ggaactgctc agggcccaag taccatcttc actggggctc   1380
cctctttaat aagaaggaga acaaagaagt tattcttaaa cttctggtca tatttgagaa   1440
cataaatgat aatttcaaat gggaagaaaa tgaacctact cagaatcaat tcggtgaagg   1500
ttcacttttt ttcttttaa aagaatttca agtgtgtgct gataaggttc tgggaataga   1560
aagtcaccat gatttttgg tgaaagtaaa agttggaaaa ttcatggcca aacttgctga   1620
acatatgttc ccaaagagcc aggaataaca ccttgatttt gtaatttaga agcaacacac   1680
attgtaaact attcattttc tccaccttgt ttatatggta aaggaatcct ttcagctgcc   1740
agttttgaat aatgaatatc atattgtatc atcaatgctg atatttaact gagttggtct   1800
ttaggtttaa gatggataaa tgaatatcac tacttgttct gaaaacatgt ttgttgcttt   1860
ttatctcgct gcctagattg aaatattttg ctatttcttc tgcataagtg acagtgaacc   1920
```

```
aattcatcat gagtaagctc ccttctgtca ttttcattga tttaatttgt gtatcatcaa    1980
taaaattgta tgttaatgct ggaaagaaaa aaagaagaaa gaaagaaacc atccctgtcc    2040
ttcagtttat aatctagttg gagagataag aaacgtacaa accaaaagat aacagaatat    2100
ctgaagcatg tactcattgt cagatgttcc ctctgaggag gcacagaggg agggcaaaag    2160
ctttctgtgg gatgtgctag tcggctaaag cttcacagag gaggtggcaa ttgaaaatga    2220
gtcctgaatg gggtagggtg gttagggaat tccatggaga caagacaagg ggggcatggt    2280
gtgagaaaag gcatggaagt aggaaccctc ttcctatgac aggagatcat tctgcttaga    2340
gtggagagtg tggagagtgg gagtagataa ttttggaaag ctgggtgaag ccagttgtgg    2400
agaattgttt gaatattatc ccattgaata cccagagcca ctaaatcttt ttttactaga    2460
aaataattgg ggtccatatg aaagtctcta ttactgagta gtgtcaatga gggtgtggca    2520
aaatggagcc tttcacatcc tagtggtggc catttggtaa tacagatata agccttaaac    2580
tatgtaaacc cttgtcctaa ggaagtaatt gaataattgc ccaaagattg tatgtatgag    2640
gctgttcatc ccagcactgt ctaagctagt aaaaattgga aacaatttaa gtatctagca    2700
cattggattg gttataaagc aaggaatgtt cacacagtag gatattataa gtatgctgat    2760
ggaaatctat attgccagga aaagctattc attatgcgtt gtgaagtcag aaagtaaaaa    2820
agggtagata gaagtattcg aagtatagtt ccatttttg agactaataa aacatatgtt    2880
taaaaggaca ctaaaaactg gagttataga tatccagata gaaacagtag ttatctttgg    2940
gtagaagaat aatgagtgat ctttactttt ttactttta ttcatctttg tgtttttatt    3000
tatctaaaat ggg                                                        3013
```

```
        <210> 3018
        <211> 1063
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1064)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (1028)...(291)
        <223> similar to gi4850182 in the genepept database release 114,
            Run with FASTXY 3.3t00,/default parameters
```

```
        <400> 3018
cctttttttt ttttttaaaa caaaatacat tattttattt caattccatg attttaaaat     60
gctttttatt ttttttcttt tgcccctttt acaggggaga cgtaaagctg tcccagttat    120
caaaaaattc aaatctcctt ttcttctgtg gactggctgt caatgagctt tcatccaggg    180
tgtctcccat gttctgggaa ctacttccag atgttcctga agcacttcct gggtcaaagg    240
actctgctgc ttccaggagc tccatatcac ttccttcttt ctcaaaggac ttctggaata    300
ggtcgtagat cttctgctgc tttgggtcct tgtagaggta atcagtggat tctgtcattt    360
ctgaaaaatt ggtctcagaa agcccggctt ctgccagaac tttaatcttc tcttgaatca    420
ggggccaaag gtagtcatca gctgtgccct ttgccacgag gtagtgaatg cccacggagc    480
tggtctgtcc aatgcggtgc acgcggtcct cagcctggat cagcaccccт gggttccaaa    540
acagctcagc aaacaccacc aggtcagccg aggagaaggt gaggcccata ttggcagcgg    600
tgatggacag cacggccaca gcatgcctct ccgacagttg gaactgctgg cacaggtcct    660
cccgctcagc tgatgaggtg gagccatcga tgcggatgtg ctgcacgtgc tttctctcaa    720
gctcttgcgt aattgcgtcc aggaccacct tatggtgtgc aaatactaaa aacttctctc    780
```

1823

```
ttccactttc cagtaggtcc aagatatatt caatgacaga tgggatttta gcttcagctg      840
ttctgttgaa gaagagaatg agggcatctt tctgctgctg tttagttttg tccttggtgg      900
tcatttcctt ggctgcagca tccagggcag ctctggtcct ggcattgatc cgtcctgggg      960
caatcaccac tatcttgcgc tgcttggcag gcagctggga aaggacgtcg gacttgaggc     1020
gccgcaggaa ttccnccgcn cttgcctatg ttncacgtat cga                       1063
```

<210> 3019
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (9)...(599)
<223> similar to gi6684 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 3019
gcacgaggcg acaggcacgc agcctactag gtgtggcggc gaccctggcc ccgggttccc       60
gtggctaccg ggcgcggccg cccccgcgcc gcaggcgggt atccccggtg gccagagaga      120
agaggacctc ctgaccccgc ggtggcagct gggaccgcgc tacgcggcta agcagttctc      180
gcgttacggc gccgcctccg gggtggtccc ggttcgttat ggccgtcgcc ggagcagctg      240
cgggagctgg aggccgaaga acgcgaatgg tacccgagcc tggcgaccat gcaggagtcg      300
ctgcgggtga agcagctggc cgaagagcag aagcgtcggg agagggagca gcacatcgca      360
gagtgcatgg ccaagatgcc acagatgatt gtgaactggc agcagcagca gcgggagaac      420
tgggagaagg cccaggctga caaggagagg agggcccgac tgcaggctga ggcccaggag      480
ctcctgggct accaggtgga cccaaggagt gcccgcttcc aggagctgct ccaggaccta      540
gagaagaagg agcgcaagcg cctcaaggag gaaaaacaga aacggaagaa ggaggcgcga      600
gctgctgcat tggctgcagc tgtggctcaa gacccagcag cctctggggc acccagctcc      660
tgaggctttg tcccttccca ataaagcctg ctacctggca gtacccctga agaaaaaaaa      720
aa                                                                    722
```

<210> 3020
<211> 1180
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1181)...(915)
<223> similar to gi1710216 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

1824

<400> 3020

```
cccgggggta aaaatttttt ttaattaaac cccggaaagc aaactttcca accgccaggc      60
tatggcggtt gttttttcccc cttttcccct taaaaatttt ttttttccct aaaggcttta    120
aattttggag ggaggttggg ccaatttgtc ccccccccaa aaaaaaggtt ctttcccaaa     180
attcccaagt tggttttttaa aaggcccccc ataaggaaaa aaattttttcc ttgccatccc   240
cggttaaatt tgggcccccc aagggttctt ttaaaagggc cccccctttt tttttttttt    300
tttttttttgc atcaacattt ttattgaaat acaaaaagtg caaacggtga aatacatgat    360
tggtgccaag gaagtcatta agtgtgaatg tgaacactgg attcacacag tacaagcacc     420
cgctccctgg ggtacagacc agtggggggac atgagaaaga ccaaatagat ccgaaaggct    480
ccccagtgaa tgggggctgtg agcgacactt gatacacaaa ggagggcgga gagcagagca    540
gcccctggccg aggctagaga ccaagggact gatgaagaac cagcagcagc ccaggcccca    600
gggggctgga tgcactgctg atggtcttgg gagagcccag cgaagttatg cccaggccca     660
gcctggcttg cggatggggc tgggctggtc agtgaggatc cccacagtac gggctctgga     720
atcatcctgc ctggccaagg tcatggggggc agggtcactg caggtacttc cctgtactcc    780
ccaaggacaa ggctgcagga agagggatcc ccaggaagga gtgtaattct acgagacagt     840
gggagtgaga tcagccatca ctggggccga ggttctttga aagacaacag ggctggcccg     900
ggcgcagtgg ctcacgcctg gaatcccagc actttgggag gccgaggtgg gtggatcatg      960
aggtcaggag atcgagacca tcctggccaa catggtgaaa ccccgtctct actaaaaata    1020
caaaaattag ctgggcatgg tggcatgcac ctatagtccc agctactcag gaggctgagg    1080
caggagaatt gcttgaaccc agaaggcgga ggtgtgccga gatcgcgcca ctgcactcca     1140
gcctggtgac agagcgagac tccatctcag aaaaaaaaaa                           1180
```

<210> 3021
<211> 2426
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (306)....(2347)
<223> similar to gi5264503 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3021

```
tttcgtaact taaggtatat taagcagtcc ccacagacat gctgcctgca ctccacctgc      60
tgagctggct ctgaggctca ggagacgtgg ccctctgtgg tcccattgtc tccacgtctg     120
tggtaacccg gtgcctttct agagcaggca ggctcccggc atgggtggaa acagagcagg     180
gggccagctt cccccaatca ccggtgctgc tgtggaggaa gagcttggtg gcgctaggac     240
gtccttgtga atgtgacttg gaagagcagt ttgggatttt tttcattgcc tggggatgag    300
agggagagac aacgtgtgtc ttacacatct cccaacagcc gacttagatg tgatccgttc    360
tcccagaggg agcaggtttc tttgaacttt tccttttttat gtacagcata gtgctgagca    420
gatcactgca ctgtgcagga gttttaacga cagtcaggcc aacggcatgg aaggaccgcg    480
ggagaatcag gatcctcctc cgaggcctct ggcccgccac ctgtctgatg cagaccgcct    540
ccgcaaagtc atccaggagc ttgtggacac agagaagtcc tacgtgaagg atttgagctg    600
cctctttgaa ttatacttgg agccacttca gaatgagacc tttcttaccc aagatgagat    660
ggagtcactt tttggaagtt tgccagagat gcttgagttt cagaaggtgt ttctggagac    720
cctggaggat gggatttcag catcatctga cttttaacacc ctagaaaccc cctcacagtt    780
tagaaaatta ctgttttccc ttggaggctc tttcctttat tacgcggacc actttaaact    840
gtacagtgga ttctgtgcta accatatcaa agtacagaag gttctggagc gagctaaaac    900
tgacaaagcc ttcaaggctt ttctggacgc ccggaacccc accaagcagc attcctccac    960
```

1825

```
gctggagtcc tacctcatca agccggttca gagagtgctc aagtacccgc tgctgctcaa   1020
ggagctggtg tccctgacgg accaggagag cgaggagcac taccacctga cggaagcact   1080
aaaggcaatg gagaaagtag cgagccacat caatgagatg cagaagatct atgaggatta   1140
tgggaccgtg tttgaccagc tagtagctga gcagagcgga acagagaagg aggtaacaga   1200
actttcgatg ggagagcttc tgatgcactc tacggtttcc tggttgaatc catttctgtc   1260
tctaggaaaa gctagaaagg accttgagct cacagtattt gttttaaga gagccgtcat   1320
actggtttat aaagaaaact gcaaactgaa aaagaaattg ccctcgaatt cccggcctgc   1380
acacaactct actgacttgg acccatttaa attccgctgg ttgatcccca tctccgcgct   1440
tcaagtcaga ctggggaatc cagcagggac agaaaataat tccatatggg aactgatcca   1500
tacgaagtca gaaatagaag gacggccaga aaccatcttt cagttgtgtt gcagtgacag   1560
tgaaagcaaa accaacattg ttaaggtgat tcgttctatt ctgagggaga acttcaggcg   1620
tcacataaag tgtgaattac cactggagaa aacgtgtaag gatcgcctgg tacctcttaa   1680
gaaccgagtt cctgtttcgg ccaaattagc ttcatccagg tctttaaaag tcctgaagaa   1740
ttcctccagc aacgagtgga ccggtgagac tggcaaggga accttgctgg actctgacga   1800
gggcagcttg agcagcggca cccagagcag cggctgcccc acggctgagg gcaggcagga   1860
ctccaagagc acttctcccg ggaaataccc acaccccggc ttggcagatt ttgctgacaa   1920
tctcatcaaa gagagtgaca tcctgagcga tgaagatgat gaccaccgtc agactgtgaa   1980
gcagggcagc cctactaaag acatcgaaat tcagttccag agactgagga tttccgagga   2040
cccagacgtt caccccgagg ctgagcagca gcctggcccg gagtcgggtg agggtcagaa   2100
aggaggagag cagcccaaac tggtccgggg gcacttctgc cccattaaac gaaaagccaa   2160
cagcaccaag agggacagag gaactttgct caaggcgcag atccgtcacc agtcccttga   2220
cagtcagtct gaaaatgcca ccatcgacct aaattctgtt ctagagcgag aattcagtgt   2280
ccagagtttta acatctgttg tcagtgagga gtgtttttat gaaacagaga gccacggaaa   2340
atcatagtat gattcaatcc agatatgggt taaattcctc attttacttt taaactggtg   2400
gtaaagtgga aattgcaaaa aaaaaa                                       2426
```

```
        <400> 3022
ttttcggcag aagggcccag ccttgagcct tgtgccctta acgcgggccg gcccgcccag   60
gtgagcagct atatggccac ggtgtcgggg ctcctcaaga tcgtccaggc cttcgtggcc   120
tgcatcatct tcggggcgct ggtccatgac agccgctacg ggcgctacgt ggccacccag   180
tggtgcgtgg ccgtctacag cctgtgcttc ctggccacag tggccgtggt ggccctgagt   240
gtgatgggcc acacaggggg cctgggctgc cccttgacc ggctggtggt ggtgtacacc   300
ttcctggctg tgctcctgta cctcagcgcc gccgtgatct ggccagtctt ctgtttcgat   360
cccaagtacg gtgagcccaa acggcccccc aactgtgctc ggggcagctg tccctgggac   420
agccagctgg tggtggccat cttcacctac gtcaacctgc tcctgtacgt cgttgacctc   480
gcctactccc agaggattcg cttcgtgccc agcctgtagc ccacagtggc agcccaccca   540
cctctgctct ctggccacca gctccaggtt ctgcgaggga aactcaggtg aaccaaagtg   600
tcaagtagcg agcaggaggg aagccgcggg ctcaggggag atgaagtaca cgggagagg   660
tcgctccccg acttccagac tgggctcc                                     688
```

<210> 3023
<211> 881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(882)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (881)...(237)
<223> similar to gi200547 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3023
```
tttttttttt ttgggcttca aatcaagttt aataaataaa acagcaaagg ggggttcaag      60
gcagttatca cttcacagtg tggtccttgg tggggtgagg gatggtcgag tccaactcgg     120
aaaggggctc gagcacaaga ggccggacga cacccggggc agggcgcgcc gccgcccacg     180
gaggacccca ctccaacgtg taaacagaaa cagaaacgaa cgagagggcc agggaggagg     240
gggaccagga ctccaagcca tcttgctagg aagcttccca cagaaggaag acctgcaggg     300
ctggggaaac aggctggagt ctggcccctg cgtggccagc agggccggct cctccggagg     360
ctccctgcct tggtaccggg ggaggacagc aaaggggatg taaatcacct gtctcctcaa     420
acccacgcct ggggttgctg agggacccca ccccaaccgc tcaggatcgg ggagcaggga     480
tggaggggga agaggcaggt gggggtgtaa agtgcggctt ttcctgaagt ggagacgatg     540
gggtgggaag gcgaggctgg ggtggggggcc ggacagcgag gtatatggct ctgtgcccca     600
cggggttggc actgagtagc agctgcccac gaccccagg gctggggcag cccgcggccc      660
tgccgggtgt ggagagacag agccaagcag ggagctgagg gcgccccggc ggaggctgct     720
ggtgcggggc agggcgtcct gcccgtctcc ccgccggggc agtgacgcct tccctcgcct     780
ctgctggctg gaagggacta ggtggccggc tctgcccgga attccccgcn ctgcctaggg     840
tctcagtcna nggnctcagt gggcgctann ncngcgcctc c                        881
```

<210> 3024
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)...(718)
<223> similar to gi4490675 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

1827

<400> 3024

```
caagaatcca tactgaaaac tgtggggaaa cttactgcaa ctcaagtagc gaaaattagc      60
tttttttttt gctttggggg gttttggca aatttgtcat atcaagaagc actttcaaac     120
ccacaagtgg ctatagttaa tattttatct tcaacttccg gactttttac cttaatcctt     180
gctgcagtat ttccaagtaa caggggagat agatttaccc tttctaaact attagctgta     240
attttaagca ttggaggcgt tgtactggta aacctggcag ggtctgaaaa acctgctgga     300
agagacacag taggttccat ttggtctctt gctggagcca tgctctatgc tgtctatatt     360
gttatgatta agagaaaagt agatagagaa gacaagttgg atattccaat gttctttggt     420
tttgtaggtt tgtttaatct gctgctctta tggccaggtt tcttttttact tcattatact     480
ggatttgagg acttcgagtt tcccaataaa gtagtattaa tgtgcattat cattaatggc     540
cttattggaa cagtactctc agagttcctg tggttgtggg gctgctttct tacctcatca     600
ttgataggca cacttgcact aagccttaca atacctctgt ccataatagc tgacatgtgt     660
atgcaaaagg taaggaaact atttattatt catagatatt ttaggtgtgt tattaaaaca     720
aacctaatga aagttgagat gtgattaaat tataaggata caaacataaa taatacttga     780
tg                                                                     782
```

<210> 3025
<211> 1366
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1367)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1363)...(896)
<223> similar to gi1195548 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3025

```
tttttttttt ttctttggat tgaatgcttt tattgtttta acacagataa cgctatggcc      60
atgtaatctg taatctctga tttccaaaat gtgaaccaag aagtataact caacttagtc     120
ttataaaaat tacgatattt tccctcatgg aaaaaaaaat cagaaaatac tacatggttt     180
ttttgttttt taagtttttt cctatactac tggtttaaat cactgtaaca gaacaggaat     240
atgtaaggca cattctggaa ccttacatct aagattaaac tactatatt taccttaata     300
aatttaaagg caaaatacag ctctttatcc aaacagactt ctttcagaac aatctttccc     360
aaaatattta atacaggtga ttttctgttt ctagaaaaga ctagagtttc caatccttcc     420
cacctgaaca aaaacaccac tctctgacta tcacccaaag agaaagaag aaagaaaagg     480
cctttaggat gcagtgggca cagactgtaa cacccagaca cagaggaaag tcagtctgcg     540
gagggagcct ggaatccagc ctccacagct tcctgagggg tgtgctggag gccacctgtg     600
gacatgttca ggtgccgagc acaaccagtt tgtggagctg gtagagaaag gtgttcttcc     660
ctctgctgct ctcacggtcg gcctgctcca tgaccagctt tggatcaacc tgattccact     720
cgtagggctt ttcatgccac ttgggaacaa tcttctccct tggtttgac tgacagaaca     780
aacctaaaag cttctgacgg gcaatgtctt gaagctgcgc aactctctct ggcccaagac     840
acttgcatcc atttggtcca tcacagacta gcttgttaat agcagccctg agaatattaa     900
```

```
cctcgacgac atcctccacg ctgaattgaa cgtcaaacgc aagctccatg tcgtgctcgg      960
gcagtatgga agcccctgta gctggattcc accccaaacc acaaaggact ccagtatagt     1020
acttgccatt ctgatcaatc cttaactcta tcaccggtgc gaataacatg ctgaggagag     1080
ccgggaggcc agggatatga ggcatcagag aggtttctct cagcagcatc gtagatcctg     1140
ttcaagtcat gctaaatcaa catcgggcat taactcacgc tgctcagggc agcgttccct     1200
cccggcccgc tcctactcat ctgcaggtat cccctcctct gctgagtctg tccagtcccc     1260
acaggcccac cccaatagta acgcacactc cctgttctct gtttccacag taccgaattc     1320
caccacatgg actaggagtc gtcaatnnnn ncaatggtct caaccc                    1366
```

<210> 3026
<211> 1438
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1439)...(274)
<223> similar to gi5912548 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3026
```
tttttttttt ttagtattta taatcattta cttgtagcga actgtttaaa gttaacactt      60
gtttaaattt ttttacacta tagcatttat gcaatggttt acagaattca tggagttatt     120
tttatcagta tgggaattaa ttaaaacctt gaatctttgt tttgtctgct tctctgagca     180
caagcctggt cagctggtcc ctgcgggtcc taccagccag cttctctgta gggctctcgg     240
ccgcgtccac ctctgctctc ccaccacaag gtcacaaact cccacgcagt cctgggtcac     300
cccgcagctg ctctggagac ttggctctgg gcgtctcgtg gcccaagtgc tccaagttgg     360
aagtttctgt gggcctcgtg tagggatgc cgtgctgggt gagcaaacct ttcagccttt     420
tgatctcctt tgagagttct ttatgagcct tcctgcagtt ttccagggtc tcaaacccca     480
agctgtcagg acctccctcc agctgggtgg gttcattttc ttctggggtc tttaagtagc     540
cagcatcctc aaaaagtgtc ctcagcaact tctcatggcc ctggggggtg atcagctcat     600
cggccaggtc ctgctctacc tggtcccact gccgctgcag ggcctctggc agggttgggt     660
acactagcaa ggcgtggggg tggcagacga ggggggtctc gaacgtcagc gcgtagacgc     720
aggtgctcgg ctcggacaca tgggccagcc ggttgctttt tccacacgcc agctccacct     780
tgctctgccg gctccgggaa cggcaggcgt caccgtccct catccacatg cccgtgaagg     840
tgttgttggc gatctcccac tcgtgccaga tgccgaggat cccactgtag gcgttccagc     900
ggaaggtctg ctcgtgctgg gtcacgttgt ggaacgggca gaactcatac ttgtacctgg     960
ggacacagat ggcatgaggg gggtccgcag gctgcgcccc agcccaccct cgcacccacc    1020
ctgcactcac gtggactcca ccaggctgaa gcacttgccc gagagtcgga agagatgcac    1080
gggtcctgga agagacctca cactgatccc cagggtccaa gcacagaacc tgtctgcaaa    1140
gacgtattaa taataaagtc gaggccgggc gcggtggctc atggctgtca tcccagcact    1200
gtgggaggcc gaggcgggca gatcacgagg tcaggagatc gagaccgtcc tggctaacac    1260
ggtgaaaccc cgtctcagac acgggtgaag gatccctctt ggcctggagg cgactggcct    1320
gaggcaagaa cgggttgttc accccaaacg cgttgggctc ctcccccacc ttcattttcg    1380
ctgcacctgc cggcgcgggc ccgccgaccg agagcccgag gagcaacagg agccgcgc      1438
```

<210> 3027
<211> 1415
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1416)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2)...(774)
<223> similar to gi4235142 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3027
```
agcttttaac tggtcctcaa tccttactga acataagaga attcatactg gagagaaccc      60
ctacaactgt gaagaatgtg caaagccttt aatcggtgct cacaccttac tagacataag     120
aaaattcata ctgccgtcan acgctataaa tgtgaagaat gtggcaaagc ttttaaacgg     180
tgctcacatc ttaatgaaca taagagagtt caaagaggag agaaatcctg caagtataaa     240
aaatgtgggg aagcttttaa tcactgctca aaccttacta cgtaagaatt tttactaaag     300
agaaatccta caaatgtaaa gaatgtggca aattccataa atcttgctca aggcattgaa     360
atcacaagat aattcatact ggagagaaac actacaaatg tgaagaatgt ggggaaagtc     420
ttcaaccatt gctgacagct tattgcacag aagaaaattc atgctgagaa aaattctgat     480
tttaaagaat gtggcaaagc atttaataac tactatgaac ttactcatca gaggttttgt     540
gctagataaa agcaatgtaa gtgtaatgat acacattaca tttatctgtg gaaagatgtc     600
accaaataaa agccttagag tacacaaggt gtaatgatag tgatacatta catttgtaca     660
tggaaagact tcaaaaatat aagccttaga gtacacaaga gtttttatac tgaagaaaaa     720
cattacaaat ataaagattg ttgcaatact tttacttatg ttacagattt tgttgtacat     780
aggagaattt atactgaaag gtaaccctct aacagttgct caaattttat tccatttttag     840
ataatttaca ttggaaagaa accctacaac tgtaatgaat atgaaaaaaa ttgtttaaaa     900
agtacacctt agaaaacact agtttaaggc cgggcgcggt ggctcacact tataatccca     960
gcactttggg aggccgaggc aggcggatca cgaggtcagg agatcgagac cacgatgaaa    1020
ccctgtctct actaaaaata caaaaaatta gctgggcatg ttgtcgggtg cctgtagtcc    1080
cagctactgg gagaggctga ggcaggagaa tggcgtgaac ccgagaggcg gagcttgcag    1140
tgagccgaga tcgcgccact gaactccaac ctgggcgaca gagactctgt ctcaaaaaaa    1200
aaagaaagaa cgctagttta tatgaaagca tttaacagat gcagtaaata taaaaaatta    1260
ataaaaaatt aagtctaaat gaacatcaga agattcacag tagaaaccac taagacgcta    1320
acactttcaa tgttattcta aatcagggca ttgattataa agagtaattc aaggttaaca    1380
taatttagtt agcctaaaca gaaataggag attat                              1415
```

<210> 3028
<211> 2964
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(2181)

<400> 3028

```
gaaactccta ggcagcagag gcccacgact acttcctcct gagtgccgtt cagtggcctg      60
tgtccaggct ctgaagggct ccaagaagct ggtgctgtct gtgtactcag cagggcgcat     120
ccctggggggc tacgtcacca accacatcta cacctgggtg acccgcagg gccgcagcat     180
ctccccaccc tcgggcctgc cccagcccca cggtggtgcc ctgaggcagc aggagggtga     240
ccggaggagc accctgcacc tcctgcaagg aggggatgag aaaaaggtga acctggtgct     300
gggggacggc cggtccctgg gcctcacgat ccgtggggga gctgagtacg gccttggcat     360
ttacatcact ggcgtggacc caggctctga agcagaaggc agcgggctca aggttgggga     420
ccagattcta gaagtgaatg ggcggagctt tctcaacatc ctacacgacg aggctgtcag     480
gctgcttaag tcatctcggc acctcatcct gacagtgaag dacgtcggga ggctgcccca     540
tgcccgcacc actgtggacg agaccaagtg gatcgccagt tcccggatca gggagaccat     600
ggcgaactcg gcagggtttc ttggcgatct cacaacagaa ggaataaaca agccaggatt     660
ttacaagggc ccagccggct cccaggtgac cctgagcagc ctgggggaacc agacacgagt     720
gctgctggag gagcaggctc ggcacctgct gaacgagcag gaacacgcca ccatggccta     780
ctacctggat gagtaccgtg gcggcagcgt ctctgtggag gccctcgtca tggccctgtt     840
caagctgctc aacacccacg ccaagttctc actcctctct gaggtgagag gcaccatttc     900
cccgcaagac ctagaacgct tcgaccacct ggtgctgagg cgtgagattg agtccatgaa     960
aggcgcggca gcccccaggc cccgggggctg gggaacacct agttccatgg tgttcctaca    1020
gttgacacgg gtttcattcc acaggcagcc acggcacctc caccaccgtc agctcggcca    1080
ggaacactct ggacctggag gaaactggcg aggctgtcca gggcaatatc aacgccctcc    1140
cagatgtgtc cgtggatgat gtcagatcca cctcccaggg gctgtcaagc ttcaagccac    1200
tgcctcgccc accacctctg gcccaaggca acgacctccc actaggccag ccaaggaagc    1260
tggggagaga ggacctccag ccaccttcct ccatgccttc ctgctcgggc actgtcttct    1320
cggctccaca gaaccgcagc ccgccagcgg gcaccgcacc caccccaggg acctcctctg    1380
cacaggactt gccctcttcc cccatctatg cctccgtctc ccctgccaac cccagctcca    1440
agaggccgct ggacgcccat ctggccctgg tcaaccaaca ccccatcggc cccttcccac    1500
gggtccagtc accccgcac ctgaaaagcc cctctgcaaa ggccacagtg ctggggggct    1560
gccttctgcc cccatcaccc tctggccacc cagaccagac aggcacaaac cagcactttg    1620
tcatggggga ggtccaccgc cccgacagcg agccagacgt caatgaagtg agggcgctgc    1680
cccagacgcg cacagcctct acgctctccc agctctcgga cagcgggcag actctaagcg    1740
aggacagtgg tgtggatgct ggcgaggcag aggccagcgc cccaggccga ggaaggcagt    1800
cggcgtccac caagagcagg agtagcaagg agctgcctcg gaaagagagg cccacagatg    1860
gggccaacaa accgcctgga cttctggagc ccacgtccac tctggtccgt gtgaagaaaa    1920
gtgcggccac cctgggcatc gccatcgagg gtggcgccaa cacccgccag cccctgccta    1980
ggattgtcac tattcagaga ggcggctcag ctcacaactg tgggcagctc aaggtgggcc    2040
acgtgattct ggaagtgaat gggctgacgc ttcggggcaa ggagcaccgg gaggccgccc    2100
gcattatcgc cgaggccttc aagactaagg accgtgacta cattgacttt ctggtcactg    2160
agttcaatgt gatgctctag aggccaaggc ctgagggcct cccaccactg cccagccccт    2220
ggtcccagtc cctttccacc gttggcttca tcaagctcct tgcggggttg gggctgcatg    2280
gccagggtgg caggaagaca tcccccctcc atcccagccc actggaccag aactgggaga    2340
ggaagagagc aggacaaggc agacagaagg tcaggtcagg aactggtgct gtactgggta    2400
cacagtaggc gcccaggaca agtgggttgc aagacaggaa gaaaggaaaa ggaagggcag    2460
agtgctggtt tctccaggtt gggttggggg cactgctgtc cccctccag ctaggaccca    2520
gcccatcccc agatgcctga gcctttgtcc aaagtgaggt cactcgagaa ttcatggaca    2580
cggcccccag tcaggggca tcttgcaaga cctttagtgc acaaataag catcgagcac    2640
ctccccattc acaccccat tcctcctggc tccttatccc ccatggtgtt tattatttat    2700
ttccctcccc atgcccctgg gaccccaag gccccagctt ccctctgcac ccccagccta    2760
tcccagaggc cttgcaggtg accagcagtg tcattgtatt tatatacaga gcttatgact    2820
ttaattttc aataaagaaa tctgaacaag gttagaaaaa aaaaaaaag ggggggccgt    2880
tttaaagaac caaatttaac gtccggggggc tggcaaggga aaagttttt tatagggccc    2940
ccaaaattaa ttccccgggc gggc                                           2964
```

```
<210> 3029
<211> 2465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2466)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2465)...(678)
<223> similar to gi4240271 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 3029
tcctctgtcc cttggctata ttgagatcct gacgatgcct accaagctgc ctcttatgta     60
ggatccagaa ccagtgggat gaaagagcag caggtaggct ccaaagagct gatagcactg    120
ggggcttcat gacccatagg acatgagctg ggaccccatc atctcccttc agactagggc    180
actttcaggg tctctcatat ataaacacac atacacacac atacacaccg caaatgatgg    240
ggaggggagg tggccccagc atgtggtgga tcacagtcac taagtctact tacttattat    300
ttatttttaa aatatattta aacagcagca gtcacttcca aaatgcaaaa aaaattacaa    360
tttttagaat aaaattataa tgtttataat gcgggtcaga agaattgaag gtacaacaga    420
atcaaatcac gcagcactgg aggcggctgg agaagccaaa gcccactggt caggggtcca    480
agctgacaag aagtcccaac ctgagaggtc tccacaccca aatcataccc ctcagcttcc    540
cactgacaga gccagtgtcc tctgggttag agaaggagaa gcggcaagga gctggccctc    600
tgtgtgggtg tcccaaaccc agtcccccccc atcagccagg gacctgctaa tccacctcct    660
ccatgttgct gtaggtgggg gctggccgat ccacaggggg ggcgaagcgt tcaggggctg    720
tccgcgtggg ggccacctcg ggggcctggc cagggcctag tccctggctg gcagcagcct    780
cagctgcagg gcctaggtct gggtggtgct cagagtgacc tgccctgggg ggcctctcca    840
caggagagtt ccgccggcgg tagaagagta cataggcata acgcgtcaca acctggctct    900
cgtctaccgt tgtcactgtg ctgtcatcaa acaagcgcca gcccacgtca ctgcgctgac    960
tgctacgatc attgggcagg cgtgcacagg cagtgtagtg gccaccaatc atgcctccat   1020
agtggttgat gacagcatat agatcgtagc tgggcagctg ctcctctttc tgaccaatgc   1080
agaacttgct caggtccagg ttcctaacag ggaactccac caagtcattg atcttgtcac   1140
gccagataaa actacgaaag gagaagcgct tgagctgcac gatgagaaca tttggcaggc   1200
gccatagcaa cagctgcttg gaggcctcac ggtgctgttt gcactgtggg cagtaccagg   1260
cctcctcggg tgccagcacc tcaggccgtg tgaagaggtt gaggcactgg tccagggtga   1320
agtggccggc ccgggcagcc tcaccggcag agcctggatc ctcagcacat tccagctcct   1380
tggaggctac caacacaaac tcctgcaagc gctcattgtt ccgccagacg agagccaggc   1440
tacagtcgtc acccagctcc agtggggtgt ctcctttgtc ctctagccgc tgctctcggt   1500
tggatgaatc aattttatag atgaagaact ggggtgtgtg ggcattcata gcttcacttg   1560
gatgctggta cccaggcaca gcagcttcgg gtcgggacac cctctcgcca gctggcaagg   1620
agccaacctc aatgggccca ctggccagca tctcagaaga aattccactg gtgctgggca   1680
caggaccccg gtcaggggct gcccacaccc ggggaagccc tgtgtccccc tcagccatag   1740
gggtcaccag ctggagctca ggtggctgaa tggggtctct ctcgctgtcc ccagcctcca   1800
gggaacctgt ggagagcagt gtggtgcagc cagggctctg agactccaag gccatgcggc   1860
ctggctgaaa gggtggctgg aatacactca cagagtaccg ggcatagccc tctagcaact   1920
```

1832

```
gagcgaggcg ggcataagtg aggcgtgagg caggtacact gaccaggaag gggtagccaa   1980
tgttctcagg tcggcagagg cccttgtggt caggccagtg ggttttctgg cagagctggt   2040
tgcagtagcc cacacggtag caccgggtac agcgcttcag cttttcatcc tccgactgtt   2100
gcttccgctg gcaggctgca cacttggaga tggggacgct gggcacctgg gggcgctgtt   2160
gcacctctag caccactacc cgctccttag ccaactctga ggatagcagc tcaaagcaga   2220
ggagcgtatc agatggggac acagtgtcca gtgagtggga gggtaggaac acacgatgaa   2280
aacgattctt aattacctcc gccaaacgca ggttctcagc gcttcacatg cacactctga   2340
gagagggagt ccaatacttc gctcgcagtg gagttctcct tgctgacgct cacaggaact   2400
tgtgggctta atntcggtct ntgcgggcnc nntaanntgg tntcaggttn ncacgnnngg   2460
aaccc                                                               2465
```

<210> 3030
<211> 1010
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1011)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (943)...(280)
<223> similar to gi3114816 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3030
```
tttttttttt ttgcagagga actgactcat ttatttgtgg atccaatgct ctcttcccac     60
tgtaccggtc ctaatttact gcagccgagc tcctcacatg ctggactatc actccatata    120
agggttgcgg tcagtgggca ggggtctggg tccaaggccg cagcaggagg aactggacag    180
cggaggaagt agctagggca tgtgcttggc ccactgcctc cagcacccca aatccctgcc    240
tgaggctggg gagagacctt ctgccggcgg ctcctcaggc cttcccggac ccggcctaag    300
gaggccaagc ggtttctctt ggcggagggc tcggtagtcc tcccggatct tctccaggtt    360
gctgagggtc ttcttgccca gctctgtctc gatctgctcc tcgaggtctc gaacctcccg    420
catgatggtg cctgtgtcct cgatggtctg gatgagctgg ctgcagttct cgtgcagagc    480
agctagatac ttataggcct tccgaacagc atcgtccttc ttggcatcct tgaacacaag    540
ctcatcagtc accgcaaacg tccggtccag cttcccagat agggagttga tttccttctg    600
aagctccttc gtatcagaca agatcttggt gatctcttcc ttctgcttcc ggatgttgcc    660
cacgatctcc aggatgcgct gggtgtaggc cagccgggac acatctctgg gcagagtctc    720
cagctctgac atctaggcag ggatatagca ggcactgccc caggaccatc cccccaccct    780
cttaagctac ccaggtccct cacacaggcc ttaccagctg cttatagacc tcctccttcc    840
tgcgggcctc ttcagcagcc gcccggacac tctggtgcag ttcttggatc tctgccagcc    900
gtcgagaaga ttccagctct ctgcaatcct gcagctttcg ggaattccac cacacggagt    960
agtgatcgaa annnnnnnnn nanggtgttc gagcnnnnnn nttctcatct               1010
```

<210> 3031
<211> 1835
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1836)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1835)...(410)
<223> similar to gi5441615 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3031
tttttttttt ttaatcaaaa agtttttttaa atttatgtaa tgtctcatta atatataagc   60
tttttccttg tttcatacaa aacaggactc cacacactta ggatggaaat ccacacactt   120
aggatttcca accatttttac atgatgcttg atgaaaatat cttttatat cactttatcc   180
atacaatact ttagtctttt aagagaatac tgaaaatagt ccgactttca aatttttaagt   240
gcaataatta gtatggttaa ttgatattta ggaagggcat gtaatgttct tagaaaaaga   300
actttatttg gaatgtaaga ttttattcgg gataatcggt tcttatgcct taaattccct   360
tagttcaaat aaactaatgt taaagaatta tggctgtttt ttaccaaaat tctctacaat   420
tgtatgatta ctctccaaca taacttcaag atggttgagg aaaataaaac aggtagtctc   480
tgaagttttt ccacaggaac agcacgctaa gtgcttcttt ctggagttat tttgtgacac   540
tgaatcgcca aagaaaagct tcctatagag ttaacagaga cttctcttgg gctgaaggct   600
gcttgtgggt tccacatgca gtctctgtga gaatgggatt cttgtgtcag ccatgggtca   660
caactttttct gtgcactttt ctggtgctgg attaggtggc catgctggtt gaaggcacgc   720
ccacactccc cgcactcata gggcttctcg cctgtgtgga tccgctggtg ctggatgagc   780
actgagtact ggctgaaggc cttcccgcag ctattgcact catatggctt ctcgcccgtg   840
tgggtcctca ggtgcacaat cagagttgct ttcaggctga aggctttgcc acattctgtg   900
cactggaagg gctttcacc tgtgtggatt ctctcatgct ggatcagaga ccggcgtgca   960
ctgaaggcgt gcccacattc accacacaca tagggcttct ccccagtgtg gactctctgg   1020
tgctggatca ggtgtgagtg ctgaacgaag gccttcccac attcgtagca tgcatagggc   1080
ttttcctcgg tgtggatccg ctcgtgattc atcagtgtgg agcggtggct gaaggtcttc   1140
ccacactcac tgcactcata gggcttctcc ccggtgtgca cgttgtggtg ctgaatgagg   1200
actgagcggt cgctgaaggc cttcccacac tcgctgcacg tgtagggctt ctccccggtg   1260
tggatcctct ggtgctgcag cagtgtcctc ttcacactga aggttttccc acactcattg   1320
cacctgtgag gcttctcccc agtgtgtacc ctctggtggc tccgcagaac agtgctatgg   1380
ttgaaggctt tcccacacaa cggacacaca tatggccttt ctcccgtgtg gatccgctgg   1440
tgctgaatga gatgtgagag ttgagtgaag gctttccgac actcaagaca ttcgtgaggc   1500
ttctctcctg tatgtatctt gtgatgctga gcaagatctg agctcactct aaaggctttt   1560
ccacactcat tacactcata gggcttctca cctgtgtgaa ttctcctgtg tttactaagg   1620
actgagctct ggctgaaggc cttcccacat acactgcaca catagggctt ctctccagtg   1680
tggttacgct gatgctgaag gaggtgggaa ctccggccaa agcacttccc acactcaaca   1740
cacatgtagg gcctctctcc acgtaggnac tgcctggtgc ggagtgagtg gcatgctttg   1800
gcttaagacc tgaacttcac ggtggtcaac agagt   1835

<210> 3032

1834

<211> 1031
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1032)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (769)...(253)
<223> similar to gi6678 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3032
```
tttttttttt ttgaaaccga gacaaccttt aatcaggaaa cctcagagag acgcatgaca      60
cctggcggta cagtcccagt gagtggaatc ccagccggac gcaactcttc ctccaggaga     120
acttggcagt cccaaccctt ctcaaaagat gagccagcca cgcggtccag ggaggatgct     180
gacagtggaa acgacttcct ccattcttac agcacattcc aaacacttct tgggaacaag     240
gttacatcca gccttggggg tcttccatcc tcaccagggc ccctgcagga gggagcccag     300
gcatccccac caggttcatc cttggagctg ccctgcacac accctgggcc actggcagag     360
gtcctctctc cagagtctcc cggacacagt gacctcctta catggtggac tcttcccccc     420
gagaagcccc cactgggggc tgctgggggc cagggtgggt ggtggctgca agggctgtgg     480
agagtctaga ggtggtggga gaaagcacgc gaggcccgag gagggtgatg ggggtcttcg     540
aggggctggg gtccatcatg gaaagtgctg aagcttccgt caggagggtg ccaggcagag     600
gaggccacct ggacactatc tgggccccag aggctgagaa cgagcgctct ggagtcacag     660
gaggtggctg aggagcccct ggggaagcta gaggtagagt gggggctcct ggaggggtcg     720
aaggccctgg tgagagtcga ggggaggccc caggctcccc tgggaaagtg gctgtcagcc     780
ccaaagcgag tgagtgtgga ccatgagctc ctgccgggct tgtaggtaaa gtctgtgttt     840
tcatcaagtt cgttcttaaa aggagctgga ggagatgaag ccccggcctc gagggtgatg     900
ccgtcggggg cccaggacag gagctacagt tgacaggggc ctcagtgtct ccatgcaggc     960
tccgaccagc tttgccgaat gccacatttc cgaattccnc cgcntggact aaggtcatcg    1020
aaagtcgaag g                                                         1031
```

<210> 3033
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (730)...(721)
<223> similar to gi3002527 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3033

```
tttttttttt ttatgattaa tttgttttct ttattgcaaa aaaaaagaat taaagaaaaa      60
aacatttgtt caaaagctac ctcaaaagtc ctcctaccaa acatgatttg gcaatctttt     120
tgcatgatta gtatgatggc agtaggagct ttgtttaata agcaaacatg atgaaaattc     180
caaaaggtgc tatgcaaaag atcagaagga agatgttttt cctgagaccc tctgccaact     240
gttacttctt ctgatgcctt tcctgcttct tgaacaaggc ttaagacagc ttctctgttc     300
catttctgac cactatgtgg cacccagaac tttgaagtag gaaatagaaa aaaatctgct     360
taactagtga tttgctgtga atctttaatc aatgcctctt aaaaataatt catttatggc     420
cgggcgcagt ggctcatgcc tgcaatccca gcaccctggg aggccgaggc gggcggatca     480
cgaggtcagg agatcaagac catcctggcc aacatggtga aaccccgtct ccaccaaaaa     540
tacaaaaaat tagctgggca tggtggtagg tgcctgtagt cccagctact tgggagtctg     600
aggcaggaga atggcgcgaa cccaggaggc ggagcctgca gtgagttgag atggggccac     660
tgcacttcag cctgggcaac agaccgagac tccatctcaa aaaaataaat aaataaataa     720
aaataattca tttatttttt tcagtgattt ggaatatggt ggct                      764
```


  <210> 3034
  <211> 1674
  <212> DNA
  <213> Homo sapiens

  <220>
  <221> misc_feature
  <222> (1676)...(1379)
  <223> similar to gi1872200 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

  <400> 3034
```
agtactagct tcagaaggaa aagctttatt ttctcagaga aaagggtggt agattaagga      60
aatgacccag catgttggta ttttgttgtt gttgttgttt aggtgtacat ttaaatgctt     120
atcaaaaagg aaacattgtc atgtcaaaga ccactgcagg ggaagcccag aggtggctgt     180
aagcaagcag atcacaagtc ctttaagaag ttctttcaaa tagcagtaga gctcagaggg     240
gggctgttgt ttcaaacaag attcaattag catcaagtta ttaaagggca gccggggaaa     300
caagaataat attgacagac ctgcttttta agcagtatct tttccctcta atcagctgag     360
tttgttggag ctgatcattt tatttcttca actccattca actataggtg caaagaatga     420
gaacttcagt gtaactccaa ttttctaaga gaactaatca tattgctgct ttataaaaaa     480
ggtaatcttt cacagttgct tagatttatg aataattaga tttaaagcat tatactggaa     540
tctagaaatc tagctaaaag agctgaggtt cttatctgaa ttatttgggc cgttagcctt     600
ctgttgaact atagaaagaa cttaaagata tagttgtaaa ataaggacgt actccccaaa     660
actgtcccaa gtatccactt gattctgtat ctttatattg catctttttc tcatatttct     720
gcaagtttac ataaactctg gtcaactatg aatgcctccc gggatgagaa atgggagttt     780
gggtgaaata gattagagaa taggttttgg ggttttttta aaccacatac tctcttgtca     840
actttcaagt tttgtgcttg tacctcttcc aaagtattca tttgaaaata tttcattttt     900
gaaatcagaa aggcactgtc tgtgctctct ctccgccaga tactcagtct gggttacagg     960
aagtagaaat ttgtgactac tagcctttcc cagcctcctt tgtaactctt gactttggaa    1020
atgggaattc agccactgag aacttttgta tgtgcagctg cctttctcag ggaacactaa    1080
ccaagaaaca aagtcttcag gtcacctttc ctcttccttt tgtgaggaca ggagacaaaa    1140
gaacaagatc tccctgaagt gtctccttgg ctttacaaca ttccacagta ggcacctaac    1200
acttgagtta aatgtgcaga ctacacacct accataaaat tagggcactc aaggtaagga    1260
aagtatttcc atagttactt ggatatttgg cagagtagtt ttctctctta aactactaat    1320
tgcccataac ttgctgggtg tgtacacaac ctgtaggaag tattattttt aaaagttacc    1380
ggctgggagt ggtggctctc gtttgtaatt ctagcacttt gtgaggccga ggtgggcggt    1440
```

1836

```
acacctgagg tcaggagttc gagtccaacc tggccaacat ggtgaacccc gtctctacta    1500
aaaaaaatac aaaaaattag ctgggcatgg tgctcatgcc tgtaatccca gctactgggg    1560
atggtgaggc aggagaatca cttgaacctg ggaggcagag gttgtggtga gccagaattt    1620
ggccactgca ctccagcctg ggcaacagag caagactccg tgtcaaaaaa aaaa          1674
```

```
        <210> 3035
        <211> 1640
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1643)...(917)
        <223> similar to gi861406 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 3035
tgcaaataat atatctaaca tacatccttt caaaatgtaa catccttaac tagttaacat        60
agtctagagt ctaggggcaa agacaagcaa atattgatga tttagaaatg cagtagcacg       120
ttaggctaca acatggttaa ttccaagtca cttcatattt tgcaagttct ttgctcctat       180
gattgaatac ttcaaacatg tatcttatct ttcctcctga gtatccaaaa gtgctttgga       240
gagcaaaagt gctttgtctc cccctttccc aaaaacaagg aggggggata gggctgtagc       300
aagaagggcc agctgctcta gagaaaatgt ggcagtacca gggtaaatgt tagcatcctt       360
aagcgggtat cttcagccag caaccctggt gtatgggggc tagtgacggt aggatttcat       420
gggtaaccta agaacaactc tttcagggc atgttttta ataatcttaa aaggattcct         480
caggttggct ttccctaact ggaaaatgga gataaaaaa aaaaaattcc atccccaagc        540
tgtcctttca atgctccccc agctggtctg ggcacactcc ttcctcttgc accccttaga       600
gcgggccagc agctccctct gggagaaatg aggcccctta gctgtgcata cccagaggga       660
acgaaacatt ctcttctgta gcaggtgccc cgatttagga agacaattct ccaaagcctt       720
gtgagctagg caagagtcca gagagaacac atttttttcc tctgaatcaa gtctttctct       780
catttacaca gtctcatctt aagaacttta agtgtgaaag gaaatatgct aaattattct       840
gagctgtcca cttagagtgt ggtgtggatt ttcccactgt ttttaaacac acagaaagac       900
acactccaaa aggcctttcc ttcttgttca ctggtgtggt ttattcttga agcaaggtct       960
ctctccagtt gaagcccca gttggtccat gggtaagagg aaggattggt ggatctgtca       1020
gctgccatat tccagtttct cctaattctt cacaggaaca aaatcccaga tatgggatct      1080
ttcggaccat ttgtacgaag tccttggagt tctgaggtga caggccctga agttggcagg      1140
tacacgcttc aagggaagat gcgtgggcca ccaatccagg atgttatttc ctttactttt      1200
acattcactt attatttctt ttgttacttg gaaacttcta ctgatataag tatcatagga      1260
ttctgaaaca actaatttgc tgattggaat gtgaggtctg taggttgtat caacactcag      1320
gttggctgca gctaactctg atggaggtat ccatgcaggt aatgtgctcc cagcaaccca      1380
ttttgtccac tcaaataagc cgggctctac acggatcttc aagtgatttt cttgttgtaa      1440
acctttcaag atattgtgtg cagtctgaac gcagcgaagg gacggggagc aatagacatg      1500
atcgataatg gtattgctct ctaataaggc ttcacccact agtcttgctt gcatgcatcc      1560
aaacacagtg atgggagcat ctttctcgta atctcggaaa ccaccactcc gctgaggtaa      1620
actatgaggc atgttcaggg                                                  1640
```

<210> 3036
<211> 4100
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4101)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (4102)...(386)
<223> similar to gi4914619 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3036

```
tttttttttt ttgagaatgg aagcaaaact tttattcctt cttggctgga gaaaggagaa    60
actatgtggg tggttgtgta cccaggaccc ccattccttc acccccctccc aagaaccaaa   120
agaagacaaa gcagcggcca cccaaatggg ctcccctctt gcccaaagtg aaagccgaga   180
ggtgcagcgg cttggctggg gaggcaggtg agcgcaagca ccggcacagg gcaggggccg   240
gcttgcagtg acagggcggg cggcccaggg cggcccatgg ggccggggtt tgaaggggaa   300
gaggcgccgg ggcttgcttg ggtaagcggg gcaaggcttg ggggggctgc cggcttggca   360
cggggcccca ggactcaggg gcaccaacaa cgcgggtaag ggggctggcc tgggaatggg   420
cttcgtcccc cccaatttga cccaccagtt gtgtacttcc ccctttgtcc ttgaagcagg   480
taaggacact cctgtagagc caggctgccc gacgtgcttt aaccaggatc tcctcggcag   540
ggggggtcctt tgggccatga acccccacca gcaagcatgt tggatgcctg ctttggcggc   600
agtcctatgg tgaaagcggt tctttctggc cctacggtag gccgttgctt cagcccccag   660
gcccctgggc caccacccctt ggctggcgtc agcaggcccc aggacccccg ngcccccatg   720
ccttggggggc acaggtgggc cttgggtcag agagtctacc aacacttgat gatgtctcgt   780
ggggagcctg tgttgctgac gagaccgggg gccctgtgac tttggccctt gaaggggctg   840
cccccaatgt ggtaggggcc gccgtacttg atggagatga ggtagctgcc aggtgccatg   900
ggggtatagg tgacgcggta gccctcaggg cactcctggc aatccatctt caccttggag   960
gggccgtcaa tggtcaccga cagggcacca gctcccgcat tgctcgtgtt cacgacgaac  1020
tcagctgggt tccctgtgac accgccttcc agacctgctc cgtaagcaga caccaagcct  1080
gggtcccctc catgcccagg ctccccaact cggatcttga aggggcttcc agggatgtgg  1140
gtgccgttga acttgacgtc aatcaggtaa acgccattct cccgagggat gaagcgcaca  1200
gcatacttat cttggtcaat ttctgtgaca tagcactcct ccagggctcc tgaggggctg  1260
tgcaccttgg catcgatcgc ccccttggcc ccgttcaggc tgactgcaaa agaggctggc  1320
tggttgacct ttagccctga ctcctggaag cacagcagac atggttagat gggggtgctt  1380
gagccagggc aagggaggac ggaaaggccc caggagcaac aggcccgcgg gtcgcactta  1440
cccatctggc gtccaacttg gtttaaagag ggagagccac tgatttgcaa ggggcagcaa  1500
gccacaggcg cacatccccg cccctgcccc cacactctgc cgtcgcacac acccaggtgg  1560
caggaaggga gggctgcccc accctgtggg cagcacccag ccttggcagg ctgtccctct  1620
ttaaaccgca gccctggtgc tcaaggggca caggcttctg ttcaaagcct ccagacctga  1680
gacacgagaa aaactccacg tggtgggcag gatatttcct gccgacccca agcgtgggct  1740
gcacccggcc agagcagagg cctggaaccc agagctgggc caggggggtc actgaacaca  1800
gggccaaggc ctggtctctg cggtggctct ggtctgtccg gcccaggag ccccaggtgg  1860
gcggtttctc tcggtgcctc acccgaaggc tagaaacagt gaggcggcgg gcgtcgccag  1920
acggagaagc cacaggcacc acgaaggggc tgtcgggaat gtgttcctcg ttgaacttga  1980
ctgagacttc gtagtcacct ggctccttgg accacataag ccacaccaca ggagccgtcc  2040
ttgcggtcct caaaagagat ctcagccttg ctgggccct cgacagcaat ggccaggcct  2100
ccagcaccag cttcccgggt ccagatactg aaattcggct tgccaattag agcttctagt  2160
actccccagt cccaggtcct ccaagcacgg acctatgtga ctcccccttt ccactagggg  2220
```

```
ccccacggtg aactggaagg ggctcccag  gcacgtgctt ggcccttgta cttcacgctt  2280
gactgtgtgt gtgcccatct cagcgggaac aaagcggatg cagtaggtgt ggttctcccc  2340
ttccacgatc tcggccctca tgggtccttc ccgatgggct ggtcacctgg gctgtcatat  2400
cctggatgct aatttcaggg attttcaggc tgaggtcaca atgactacca acgttggcca  2460
ctgaaggagc ccgacgcctg cgggtgatgg ctctctttca cccggccctc gcctgtcacc  2520
ttcacagaga aggggctgcc aggcacgtgc tggtcggcaa acttgatgtt gatgatgtag  2580
ttccctggct ctgttggggc agtaagggac cctgcacgtc ccgtcctcca ggtcctctgt  2640
gttgatgtcc accttgctgg ggccctcaat ggacaggctg agcccaccat agcctgcatc  2700
gcgggtatca atgataaact ctgcaggctc aaaggtgtgg ccttcgtgaa ggccctgacc  2760
agagacccga acacgactgg catccccaat ttccgactgg ctgatcacca ccgggatggg  2820
gctgctggcc acgtgctggc catttttctt cacatgcacc aggtgctccc ccgtctcctt  2880
gggcacgaat gaaatcccca cgtggccatt acgcagccgc ttcagcaaac agggctcctc  2940
ccggcccgag ggcgggacca cagtggccgt cagcaggctg agatccgtct ctgagatgtt  3000
gatggggatg tcggcagcag agccgacctt taggtgggac atacgcatgg agtcgtcacc  3060
tgtgacccga gcagtgaagg ggctgcctgg gacgtgctgt tcattgtact tgactagaat  3120
gctgtagtcc cccggcagca caggcaggta ggacacgctg catgtcccat cctggttgtc  3180
agtgcagctg atttctgctt tggacgggcc ctcaatggcc agagacaggc cccctctcc   3240
tgcatccttg gtgttgacgg tgaaggtggc aggcttgttc actactccat gggtgaggcc  3300
aggcccatag gcagtgacat ggccacagtt gacgtaatcc acatagaact gcaagggct   3360
tcctgggatg tgcatgttgt catagcggat gtccatctcg tgcaggccag cctcgctggg  3420
tgcataccgc acggtcacgg tgccgtcttt gttgtcagtg atgggggctg ccgccagcct  3480
agcctaaggg catccaaacc tccctgtga  tctcgccctt cttgatggtg aaggggatga  3540
caaggtcaaa gggcctcagg ctggtcacat ccagcccatt gacacccacc aggggcctct  3600
ccggggccca agtctgctgg ccgccctggg cgtaggtgta ctgtggggcc agctgctgag  3660
accgtagagg gggctgcacc gagggctggt ccccagccag agccgtcact tggaaggggc  3720
tgttgggcac gtgctcgcca ccaaagcgca cacagatgac gtatttgccc ggctgggggg  3780
ccaagtagaa gatgtcgaaa gtgccgtcct cattctccac cacgtccaca tccacctctg  3840
agccatcagg cgtgcacacg gtgcacgtca ctttgccttt gcctgccgcc ttagtgtcca  3900
cagtgatcac cgtctcctcc ccaatctgaa tggtggggcc gatgccagca cctgtgacag  3960
tgcacttgac cttggacgca tctgtcacat catgcacagg gaccttgaaa ggactgcctg  4020
gcacttgatg gccaccatag gtgacgttga ggctgtaggt gccagcctca taagggatgt  4080
actcgaccga gcagctgccc                                             4100
```

```
ggaattcgta cttcatcacc taaaactgaa ggcaagcacg aagaaactgt taataaagaa    60
tcggatatga aggtgccaac tgtaagtttg aaagtatctg aaagtgtaat tgatgtgaaa   120
acaactatgg aaagtatatc taatacgtct acgcagtctc tcacagcaga aacaaaggac   180
atagctttgg aacctaagga acaaaaacat gaagacaggc agagcaatac accttctcct   240
cctgttagta ccttttcatc aggtacttct accaccagtg atattgaagt tttagatcat   300
gaaagtgtaa taagtgagag ctcagcgagc tcgagacaag agactacaga ttcaaaatca   360
agtcttcact tgatgcagac atcttttcag cttctctctg catctgcttg tcctgaatat   420
aatcgtttag atgatttcca aaaactcact gagagttgct gttcatctga tgcttttgaa   480
agaatagact catttagtgt acagtcatta gatagccgga gtgtaagtga aatcaattca   540
gatgatgaat tgtcaggcaa gggatatgct ttagtgccta ttatagttaa ttcttcaact   600
ccaaagtcta aaacagttga atctgctgaa ggaaaatctg aagaagtaaa tgaaacatta   660
gttataccca ctgaggaagc agaaatggaa gaaagtggac gaagtgcaac tcctgttaac   720
tgtgaacagc ctgatatctt ggtttcttct acaccaataa atgaaggaca gactgtgtta   780
gacaaggtgg ctgagcagtg tgaacctgct gaaagtcagc cagaagcact ttctgagaag   840
gaagatgttt gcaagacagt tgaatttctg aatgaaaagc tggaaaaaag ggaggctcag   900
ttattatctc ttagtaagga aaaagcactt ctagaagaag cttttgataa cctgaaagat   960
gaaatgttca gagtgaaaga agaaagcagt agcatttctt ccttgaaaga tgagtttact  1020
caaagaattg cagaagcaga aagaaagtt caactagcct gcaaagagag agatgctgct  1080
aaaaaggaaa tcaaaaacat aaaagaagaa cttgccacta gattaaatag tagtgaaact  1140
gcagaccttt tgaaagagaa agatgagcag atccgagggt taatggaaga aggagaaaaa  1200
ctttcaaaac agcagctgca caattctaac atcatcaaga aattaagagc taaagacaag  1260
gagaatgaaa atatggttgc aaagctgaac aaaaaagtta aagagctaga agaggagttg  1320
cagcatttga aacaggtcct tgatggcaaa gaagaggttg agaacaacag tagagaaaat  1380
attaaaaaac taaattccat ggtagaacgc caagagaaag atcttggccg tcttcaggta  1440
gacatggatg aacttgaaga aaagaaccga agtattcagg ctgccctgga tagtgcatac  1500
aaagaactta ctgatcttca caaagccaat gctgcaaagg atagtgaggc acaggaagct  1560
gctctgagcc gtgaaatgaa agctaagaa gaactttctg cagcattaga gaaggcccaa  1620
gaagaagccc gtcagcagca agaaacatta gccattcaag tgggggacct taggcttgca  1680
ttgcagcgta cagaacaagc ggctgccaga aaggaggatt atttacgcca tgagatcggt  1740
gaacttcagc agagactcca ggaagcagag aatcgaaacc aggaactgag tcaaagtgtt  1800
tcatcaacaa caagaccatt gcttcgacaa atagaaaatt tgcaagcaac cctgggatcc  1860
cagacatcgt cgtgggagaa attagagaag aatctttctg ataggcttgg tgaatcccag  1920
accttgctgg cagcagcagt tgagagagaa cgtgcagcta cagaagaact ccttgctaac  1980
aaaattcaga tgtcttccat ggagtcacag aattctcttt aagacagga aaacagtaga  2040
tttcaagccc agctagaatc agagaaaaat aggctgtgta aactggagga tgagaacaat  2100
aggtaccagg ttgaattgga aaacctaaaa gatgaatatg taagaacact tgaagagacg  2160
aggaaagaaa agacattgtt gaatagtcag ttagaaatgg aaagaatgaa agttgaacaa  2220
gaaaggaaga aagccatttt tactcaagaa acaataaaag aaaaggaacg caagccattt  2280
tctgtttcta gcactcccac catgtcacgc tcaagttcaa taagtggtgt tgatatggca  2340
ggactacaga catcttttct gtctcaggat gagtctcatg atcactcatt tggaccaatg  2400
cctatatcag caaatggaag caatctttat gatgctgtaa ggatgggagc aggatcaagc  2460
ataattgaaa acctacagtc tcagctaaag ctaagggaag gggaaatcac tcatttacag  2520
ctagaaattg caatctaga aaaaactcga tcaataatgg ctgaagaact agttaaatta  2580
acaaatcaaa atgatgaact tgaagagaag gtgaaggaga tacccaaact tagaactcag  2640
ctaagagatt tggatcaaag gtacaacact attctgcaga tgtatggaga aaaagcagaa  2700
gaggcagaag aacttcgatt agatctcgaa gatgtaaaaa atatgtacaa aactcaaata  2760
gatgaacttt aagacaaag tctcagttaa cttgtgaaaa ttgaattccc atcaaactga  2820
atgtaagcat ttaatatcta aacatttaat gcggacttcc aataaattct tttatataat  2880
tatatagtgg gatttactgt agagtgtaaa aattttttta aaattgattt acactatgta  2940
gtaatatta cagttaaatt attttgtgca atatttgaac tttattttg aaactattct  3000
ttaaagattt attttttaaa gcattcattt ttttccttg aatagcacag agatttatta  3060
ctttatcctc atataaatat ggctagagaa gaagaatggt gttcatatat gtattgtaga  3120
tatacaacta gttgtatcta taatttgtaa gtgtttatat atatattaag aacatttgaa  3180
gagtaatgtt aacatactga aactttgaaa tctttcacat ttaaaatttc aacatatctt  3240
aattactgct catgaaaatg tacattaagt gttaaagtaa aaaattatta aatctgtggg  3300
ctattaaatt ttaaactaat ttttttccc tttaaaagta aggagtcaca ctggacactg  3360
tctggaaatt taaaggngtg gaatggttta aactnaaaaa nattttggtc cggaaatttn  3420
```

1840

<210> 3038
<211> 826
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (719)...(150)
<223> similar to gi3875920 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3038

```
ttttttttttt ttgctgttgg ttgccttact ttaatgctga cctagcagcc ccgacaggaa      60
gctttaacat aaagccttga ccctgagaag catgggtgcg tcttgtcgtg agcaggttca     120
tggctgtgct ccatcctcag cccgctgatt tttggtcttt tgtcctttga tccagcagtt     180
cccacgtgga tgttgtactg cttctgtcct tgatgttgat gccgtgggca gtcaggcccc     240
ggcgcagggt gtcgcatgct tccagcaggg gctgcctttc taggagctgc tgccgccggg     300
cgtcccccgt ggcctcgggc atggccagcg caaactgccg gaccttctgc cggaaccgca     360
ccagctcgtc caccacacca tgcaaggtag cctcgctgcc gtctcctgaa acgtactgtt     420
gatttgccag agaaattcca acagtttcaa aaaactgttc aaagtaagag atgatggcac     480
caaacacagc aggacttctc ggcccttcag gttccttcag ggacgccctg agctgtccat     540
tcccgtggtg tgcaaggccc aggatggcat caaccaccct gggtgtgtca aagtcatctg     600
ccaaggccgc cttcacggcc ctcttggtgc tggagagcct gagggaagag gagagaacag     660
tcacagcaga gggagctcca ctctccccag gcggccccca caccagtcct tccccaggga     720
gagacgctgg gggctctaat ctggggactt tctctaggtc atattcccaa agacttgagt     780
tcctgagtag cagaaaatta tgtaacatca actgcaaact gtcatg                    826
```


<210> 3039
<211> 1091
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(574)
<223> similar to gi220637 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3039

```
acgttttccg caccagttgt aacctcaaaa gccacaagag gattcacacg ggggagaatc      60
accatgaatg taatcagtgt ggaaaagctt tcagcacaag gtcctctctc actgggcaca     120
```

```
atagcattca tacaggggag aaaccttatg aatgtcacga ttgtgggaaa accttcagga    180
agagctccta tctgacacag cacgtaagaa ctcatactgg agaaaaaccc tatgaatgta    240
acgagtgtgg gaaatccttc agcagtagct tttctcttac tgtgcacaag agaatacata    300
ccggagagaa accctacgag tgcagtgact gtggaaaagc ctttaataat ctctcagctg    360
tgaagaaaca cttaagaact cacactggag aaaaacccta tgaatgtaat cattgtggga    420
aatccttcac aagtaactcc tatctttctg tgcacaagag aatacataat agatggatat    480
gaattactgc aggaacttct ggaggaaagc actcattgat ctttcatccc taagatagtt    540
tgagagagct cacactggat atataagtta tttgttgcag cataacaaat gatccccgca    600
aattttgtgg cttcaaacac gaaatgttta ttctctaaca atttctacag atcaggaatt    660
caagaacagc ttatctctgt agttacactg caggatctct catgccttta cttacaatca    720
agatgtcagc caaagctata gtcatctaac atctttactg atgaacagtc cacttccaag    780
atgacttatt cacatgcctg gaaagttgat gttggttgtt gtcaggggac cttcagtcat    840
taccatgtag gcctctttac aaggcccagc tccttgacaa tttggcaata agttctcgcc    900
aaggttagtg atccaagaga ggaccaatac agaggccaaa atggctttta tggcctatcc    960
tcaggaggac tgctaagctt tcacttattt cctattgtgt tggtctcaca acacaccaat   1020
cctgatacaa tgtgagagac tgcagaaggt atgaatacca ggaaacagat aactcagaag   1080
catctgggaa t                                                        1091
```

<210> 3040
<211> 881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (23)...(647)
<223> similar to gi2072969 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3040
```
aagctaaaag tctcagcata gaagctataa aaagaaacaa gtggaaattg tagcactgaa     60
aatacaataa caaaatttac tggaaggtct caacacaatg aagatgactg agggaagagt    120
cagtaaattt gaagatacat gagcagaaat tatctagtct gaatgacaga gaaaaaagtg    180
aaaaaaatga gaagaccttt ggggatctgt gggacaatat gagacagtct aatattcatg    240
tcttaggagc ccagaaagaa caattggaag aaaaaaatat ctgaagaaat aatagctaaa    300
aacttccaaa catctggcaa aaaacaaata ttcacataca tttacataac attctattta    360
aagccggtct gctggcacag caaatcccaa aaaggaaaac cacacccagg cacatcataa    420
tcaaagtgat gaaaccaact gtaaagaaaa tactttgaaa acaactggaa gaaaacaaca    480
ctttgtatat aggagaacca aagatttcag tgatggcaga tttctcatca gaaaccatgg    540
agcaacattt ataaagtgct tttaaaaagc aacaaaactg tcaacacaga atcctttatc    600
cagcaaatat attctttagg aaagaaaatg aaataaagac attttctttt ttttctttac    660
ttttttttttt ttaataaaag ggagtctcac tctgttgccc aggctggaat ggagggggggc   720
gatctcagct cactgcactc cagcctgggg gaacagagtg agacttcatt gttgaaattc    780
gtgctccact ccagcaactg ctttcaatcg gagttccatc ctccgccgca gtatgcccta    840
acgcagcgtt atcttcagag ctacccacca gccttccgaa a                        881
```

<210> 3041
<211> 1796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1233)...(558)
<223> similar to gi5420387 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3041
```
tggccatctt tactgtgggc tgaagcctgt gcgcttactc gcgcatgtgc aagccttccc    60
tcgctttcct cttccaagta gccttgccta gagcggagcc tcccgcgcca tttctgtgcg   120
cctgcgtagc gtgaccctgc gcagcctggg aggcgggtct tagctccagg tgcgtacggc   180
atctgacttg acgtggccca caactgaaag gtctggggag aaggcgccgt gtccgggtgt   240
ggagagggggc gtcgtggaag cgagaagagt ggcccgtccc tctcctcccc ctttccctct   300
ttcggaaagt ggtttctgcg gggcccggga gcctcggagt accgaacctc gatctccggg   360
gcggggtcct tggtgggggac tgagcgcccc ctcccgggga cgggcggtct ggccgcggag   420
tccctgcgg gagcgtgatt ggctggaaac ggtcccgaac ccccagggga gcccgatccc    480
tggggggaccc tggcttcgga ctccagtatc tgtcgtcgca gggtccctgc cctagtggcc   540
tatgtccctt gctcgggggcc atggagacac tgcggccagt acggcggcgc ctctgtctga   600
agaagggggaa gtgacctccg gcctccaggc tctggccgtg gaggataccg gaggcccctc   660
tgcctcggcc ggtaaggccg aggacgaggg ggaaggaggc cgagaggaga ccgagcgtga   720
ggggtccggg ggcgaggagg cgcagggaga agtccccagc gctggggggag aagagcctgc   780
cgaggaggac tccgaggact ggtgcgtgcc ctgcagcgac gaggaggtgg agctgcctgc   840
ggatgggcag ccctggatgc ccccgccctc cgaaatccag cggctctatg aactgctggc   900
tgcccacggt actctggagc tgcaagccga gatcctgccc cgccggcctc ccacgccgga   960
ggcccagagc gaagaggaga gatccgatga ggagccggag gccaaagaag aggaagagga  1020
aaaaccacac atgcccacgg aatttgattt tgatgatgag ccagtgacac caaaggactc  1080
cctgattgac cggagacgca ccccaggaag ctcagcccgg agccagaaac gggaggcccg  1140
cctggacaag gtgctgtcgg acatgaagag acacaagaag ctggaggagc agatccttcg  1200
taccgggagg gacctcttca gcctggactc ggaggacccc agccccgcca gcccccact  1260
ccgatcctcc gggagtagtc tcttccctcg gcagcggaaa tactgattcc cactgctcct  1320
gcctctaggg tgcagtgtcc gtacctgctg gagcctgggc cctccttccc cagcccagac  1380
attgagaaac ttgggaagaa gagagaaacc tcaagctccc aaacagcacg ttgcgggaaa  1440
gaggaagaga gagtgtgagt gtgtgtgtgt gttttttcta ttgaacacct gtagagtgtg  1500
tgtgtgtgtt ttctattgaa cacctataga gagagtgtgt gtgttttcta ttgaacatct  1560
atatagagag agtgtgtgag tgtgtgtttt ctattgaaca cctattcaga gacctggact  1620
gaattttctg agtctgaaat aaaagatgca gagctatcat ctcttaaaag gaggggctgt  1680
agctgtagct caacagttag gccccacttg aagggagagg cagaattgta ctcacccaga  1740
ttggaaaatg aaagccagat gggtagaggt gccctcagtt agcacctgtc ccatct      1796
```


<210> 3042
<211> 2707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<400> 3042
```
ccgccagcct gggctccgcg cagcccaccg atctgggcgc ccacaagcgg ccggcatccg    60
tgtcgagcag cgctgccgtg gagcacgagc agcgtgaggc ggcagccaag cgagaaacaa   120
ccgccgccgc ctgcgcaccg gggcccggcc gacagcctgt ccaccgcggc cggggccgcc   180
gagctgagcg cggaaggtgc gggcaagagc cgcgggtctg gagagcagga ctgggtcaac   240
aggcccaaga ccgtgcgcga cacgctgctg gcgctgcacc agcacggcca ctcggggccc   300
ttcgagagca agtttaagaa ggagccggcc ctgactgcag ttgcaagaac agcaaggaaa   360
aggaagccct ctccagaacc agaaggtgaa gtcgggcccc ctaagatcaa cggagaggcc   420
cagccgtggc tgtccacatc cacagagggg ctcaagatcc ccatgactcc tacatcctct   480
tttgtgtctc cgccaccacc cactgcctca cctcattcca accggaccac accgcctgaa   540
gcggcccaga atggccagtc ccccatggca gccctgatct tagtagcaga caatgcaggg   600
ggcagtcatg cctcaaaaga tgccaaccag gttcactcca ctaccaggag gaatagcaac   660
agtccgccct ctccgtcctc tatgaaccaa agaaggctgg ccccagaga ggtggggggc   720
cagggagcag gcaacacagg aggactggag ccagtgcacc ctgccagcct cccggactcc   780
tctctggcaa ccagtgcccc gctgtgctgc accctctgcc acgagcggct ggaggacacc   840
cattttgtgc agtgcccgtc cgtcccttcg cacaagttct gcttcccttg ctccagacaa   900
agcatcaaac agcagggagc tagtggagag gtctattgtc ccagtgggga aaaatgccct   960
cttgtgggct ccaatgtccc ctgggccttt atgcaagggg aaattgcaac catccttgct  1020
ggagatgtga aagtgaaaaa agagagagac tcgtgacttt tccggtttca gaaaaaccca  1080
atgattaccc ttaattaaaa ctgcttgaat tgtatatata tctccatata tatatatatc  1140
caagacaagg gaaatgtaga cttcataaac atggctgtat aattttgatt ttttttgaat  1200
acattgtgtt tctatatttt ttttgacgac aaaaggtatg tacttataaa gacatttttt  1260
tcttttgtta acgttattag catatctttg tgctttatta tcctggtgac agttaccgtt  1320
ctatgtaggc tgtgacttgc gctgcttttt tagagcactt ggcaaatcag aaatgcttct  1380
agctgtattt gtatgcactt attttaaaaa gaaaaaaaa gccaaataca ttttctgaca  1440
ttgtaagatt gccttactgt ctgtcattcc ttattgctgg cccctttctc aggccggagg  1500
ccaagtggtg gagaaggaaa ggaaatgatc gaacgggcat gttgtcaagt gggcatgcca  1560
ctgggaaata ccaccagttt accctgaaac attgtcctca gaggagtagg aaaggggatt  1620
ttgaatctct attttgctca aaagttcagt tcctgagata ctgatgactg agagtgctgc  1680
tgggaaattt tcaggattgt gtggtctttt ggggtttttt gttttttttt tttaaaaaa  1740
aatttgaccg ttgttcactg tcccacgtga tcagttgtaa gattacaatg ctgcatgcta  1800
gtgggttaca taaaaaacaa ttccagtgat ggaaggcggt tataatggat ggtggtgtgt  1860
acaagatggc actgccatct ttgagcagag cccagctctg cagcgccact tcatcttttt  1920
aaacacccta taggtctgtt tgttgttgct gttgtccttt attttgaaag agttgcaaga  1980
gaagttacag tccaggtgaa cttggagatt gtgggattgg ttttgtttct gttttgtttt  2040
gtttatcatt tacctgtagt gctattgctg ttgatactat cacctatacc ctgtttctag  2100
tgagtgctga atacagtatg gtacaatgac agtaacagcc gcgtggtgct gccaggactg  2160
cccttgggca tatcagtgac agcccaaatg tgggtggagg aaacctgtaa tttccttctt  2220
aacatgtgtt tgaaatacca agtgaataat actgttctgg aaaaaaatga taaactagtg  2280
gaaattaaag aaattaaggg ttttatataa tagacaggcc ccacctctca aaatattttt  2340
agaagtcttt ttgtaaacta atttcttttg atcactattt tgcatcagta aaatgatttt  2400
tttaaaacca ataaatcatc aattattaga aatagttgtc tcacagggat actggttttt  2460
cttttgggct gttatgattt aacattgaca ggaacactat tttaaatcct tacgttcagg  2520
tgtttgtaac ttggccttat aattaggctg aattatggct tcaaggtcta caatttatgt  2580
gtatggttca cagcctagct ttctatttac atttgaaaat acagattttt accaactttg  2640
gattcttttt taggtatatg gttgcctttc cttttttaaat tgttcaaaac tatttttttaa  2700
tggtcag                                                            2707
```

<210> 3043
<211> 1233
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1234)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (863)...(493)
<223> similar to gi3877572 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 3043
```
tttttcaaga acccaattta atcagattta cgaggggaca tgtacaaaaa acacccgaac    60
aatgcagaat tcatcgcaag actagggact gaatctggaa ggtagagtcc ccgccccagg   120
gaggggccca gcgtgttgga gatctcaagg ttttttccca ctgattctct aagtcttggc   180
cttatctaac acatgaaacc aaacccaca actgaggcta agatttaaga gctacccaga    240
gctaaatttt cccctcccca agcctccctg ctctagaagt ggaagggaaa gaaggggaga   300
gactatgaac ctaaggagag tggagcctcc agcaccaccg gacagggact gcatagctgt   360
ccgacaactg agctcctcct gcctatctgt ggccaaatgc cctccatgtt tgcaggcagg   420
ttggccaaca ggggacaggg agggtggggg gaggcagagg ggtgccccaa acgccctgga   480
gaggccgaag ggaggagggg cagcactgga ggccccattc ggacttgctg ccacgggagt   540
caccactgca gggggccgat gtcagctccc agctcctctt cctttagctg gaagggcttc   600
actggccact tcaccctgat gatgggctcc acgtggtcct gaaggcggtg ccgcttcata   660
tgggcatttc gactcttgat cttgtcaaac accctttcac actctctgca tggaaaaatg   720
ccctggctct ctgcacttcc caacagctcg ggggtccgct tggagcctgc atttgggctg   780
gagctgagga tggactccct cctataactc ttggtcttta acttgggagt tggatggtgg   840
ctgggtctct cccgagggct gcatgggacc ttttcctctg tcctttccac ttcctccggc   900
tctctcttga ccctcttttc tagccctggg gctcggccac agtcaaactt gatcattttt   960
ttccagatgt aataatactc aacgcactga gctaccgtct ttgtctggat ctagtgaaag  1020
aaaacaagca ggctgtggct gtgccacgcg ggccctggga gtgtgacctt gccattgggc  1080
cggccgcctc ctttggaaag ccctccggaa gcacctcttc ctttggcttg gcgttaccac  1140
tcaccacaaa ggcacaggac cagaattcca ccacntggat agtggactca caacncntnn  1200
nntaaggtct acgaanttnt cttnngggc ccg                                 1233
```


<210> 3044
<211> 1191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1192)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (931)...(358)
<223> similar to gi5102812 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3044
cgccactgct agaaagcagg gtttgaactc cagctaccac ggtctgtcgc cggagttcct   60
gcgttgacct cagataatgt aaagcttgtg taagatgctg cgggaattcc agatcgtttc   120
agtgactatg gccccagaac actgacagag gtcccctccc caccatggca ggatctgagt   180
gcaacaggag gctcccaccc actcccaggg ccccacaggc acagccacag ccacttctga   240
ccctttattg gggcactgtc ggccccaaat aaatataata cattaaaccc agagctgagg   300
gaatcgtgca ccccaggagg cgcccccac aacctcagcc gggcaaaata agttagtggg   360
gggcctgcca gaggccgggc cagctccctg gtctaaagtg catctcggtt cccgtgggga   420
ttccgtggtc cccacgtctg cacagcccct ggttgggccg tcgggagggg cgggtgggag   480
atgcctggcg ctcacaccgt gccagcagtg gccgccgagg ctctgtgtgt ccatctgtcc   540
atgtggggga acagctgcgt ggccggggtc ctcaggaaaa gctgtcatcg ggccggggct   600
gggtgtcaaa gggagggtct gagactgtga tgccttggtg cagcttctcc agcgagaact   660
tcatctcatc caggagctcc acggaggccc gcaggatctg cctccacttg tgcacctcca   720
cgctgtggaa ttgcttctgc agcgccagga tctcggccca ctctgtggcc gtctggggga   780
acttgccctt ggccagggcc aggctgtgcc aggactcaaa ggtgtgggct gtccttcca   840
gggaccagag gcggtagaag agcaggacgt tgagggcgat gaggatgata aggctgggga   900
caggggtcag aggtcaggat tcctggggtc tagatgctct gaacacccc aaacaactac   960
atcttgtagg gacacctcta tcccccattg cagaggagga gaattaggct cagagaggat   1020
gagagacatg cctaggggttg cacagtccat agcagggaag tcagtgttca aacccaggtc   1080
tgtctgatgc ccatacccctt gactgccatg ccaggccacc tccctggggg agctggaggg   1140
catggggtgg ggagaagagg cgaatgccnc cncaatggct atcagtcgca t   1191

<210> 3045
<211> 1406
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (17)...(870)
<223> similar to gi2887429 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3045
ggaattcagc ggccccgggc acgcgcgcgc gccaccggcc cggcaggtgc tgtccttatt   60
cccagcccag tcaagagcta ccggggctgg ctagtcatgg gggagcccag tagagaggag   120
tataaaatcc agtcctttga tgcagagacc cagcagctgc tgaagacagc actcaaagcc   180
ccgtctcttg aatgcacagt tgcctgcttt gagacagaag atggagaata ttccgtttgc   240
cagaggagct atagtaattg ctctcgcctg atgccttccc gctgtaacac gcagtacaga   300
gatccgggtg ctgtggactt ggagaaagtg gccaatgtga ttgtggacca ttctctgcag   360

```
gactgtgtgt tcagcaagga agcaggacgc atgtgctacg ccatcattca ggcagagagt    420
aaacaagcag gccagagtgt cttccgacgt ggactcctca accggctgca gcaggagtac    480
caggctcggg agcagctgcg agcacgctcc ctgcagggct gggtctgcta tgtcaccttt    540
atctgcaaca tctttgacta cctgagggtg aacaacatgc ccatgatggc cctggtgaac    600
cctgtctatg actgcctctt ccggctggcc cagccagaca gtttgagcaa ggaggaggag    660
gtggactgtt tggtgctgca gctgcaccgg gttggggagc agctggagaa aatgaatggg    720
cagcgcatgg atgagctctt tgtgctgatc cgggatggct tcctgctccc aactggcctc    780
agctccctgg cccagctgct gctgctggag atcattgagt tccgggcggc cggctggaag    840
acaacgccag ctgcccacaa gtattactac agcgaagtct ccgactaggc ctccagatca    900
gggcttcctc accagcactg gcctttcttc tacccacctc taaagctggc agtggagtct    960
ctgcctcacc caaagacttt tcccttccag actttgagtg tcttcccttc tagactttcc   1020
catctcctgg tgagatgttt cccacttatg ccgtggtcct gccctgagcc cctttcccca   1080
ccacaaccca ccacggccag gcagagaagg gcaactccca agagccactg cactgtgtaa   1140
ccattagtgc aactactacc ttggtgcctc agtttaccca tctgtaaaat gggtaagcat   1200
agccactggt gggatatttt gggatgtcaa ggggtggagg cagagcacaa gtcacaccag   1260
aaactgcttt ttatacattt tgtataagga caactctgga aacaagccta tttcctccag   1320
ccagtttcac tgaatgctgc accacatgct acaccagttc agcgtgagaa ttttctaata   1380
aatcttttct gatactaaaa aaaaaa                                        1406
```

<210> 3046
<211> 2408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(1336)
<223> similar to gi4650844 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3046
```
cagtgcggag gaattcgaga gccagcaggc cagcgtgacc atgcacgatg tggacgccga     60
gtccttcgag gtgttggtcg actactgcta cacgggtcgt gtgtctctca gtgaggccaa    120
cgtggagcgc ctgtacgcgg cctccgacat gctacagctg gaatatgtgc gggaagcctg    180
tgcctccttc ttagcccgac gtcttgacct gaccaactgc accgccatcc tcaagtttgc    240
agatgccttt ggccatcgca agctgcgatc ccaggcccag tcctatatag ctcagaactt    300
caagcaactc agccacatgg gttcaattcg ggaggagact ctagcagatc tgaccctggc    360
ccagctgctg ctgtcctgc gcttggatag tctggacgtg gagagtgagc agacagtgtg    420
ccatgtggca gtgcagtggc tggaggctgc tcccaaagag cggggtccca gtgctgcaga    480
agtcttcaag tgcgtgcgct ggatgcactt cactgaagaa gatcaggact acttagaagg    540
gctgctgacc aagcccatcg tgaagaagta ctgcctggac gttattgaag gggccctgca    600
gatgcgctat ggtgacctgt tgtacaagtc tctggtgcca gtgccaaaca gcagcagcag    660
cagtagcagc agcaactctc ttgtatctgc agcagaaaat ccaccccaga gactgggtat    720
gtgtgccaag agatggtga tcttctttgg acaccccaga gatccctttc tctgctatga    780
cccttactcg ggggacattt acacaatgcc atcccctttg accagctttg ctcacactaa    840
gactgtcacc tcctcagctg tctgtgtgtc cccagaccat gacatctatc tagctgctca    900
gcccaggaaa gacctctggg tgtataaacc agctcagaat agttggcagc aacttgcaga    960
tcgcttgctg tgtcgtgagg gcatggatgt ggcatatctc aatggctaca tctacatttt   1020
gggggacga gacctatta ctggagttaa gttgaaggaa gtggaatgct acagtgttca   1080
gagaaaccag tgggcattgg tggctcctgt ccctcattcc ttctattcct ttgaactcat   1140
```

1847

```
agtggttcag aactatcttt atgctgtcaa cagtaagcgc atgctttgct atgatcctag   1200
ccacaatatg tggctgaact gtgcttctct taaacgtagt gactttcagg aagcatgtgt   1260
cttcaatgat gaaatctatt gtatctgtga catcccagtc atgaaggtct acaacccagc   1320
taggggagaa tggaggcgga ttagtaatat tcctttggat tcagagaccc acaactacca   1380
gattgtcaat catgaccaaa agttgcttct catcacttct acaaccccac aatggaaaaa   1440
gaaccgagtg acagtgtatg agtatgatac tagggaagat cagtggatta atataggtac   1500
catgttaggc cttttgcagt ttgactctgg cttttatttgc ctttgtgctc gtgtttatcc   1560
ttcctgcctt gaacctggtc agagtttttat tactgaggaa gatgatgcac ggagtgagtc   1620
tagtactgaa tgggacttag atggattcag tgagctggac tctgagtcag gaagttcaag   1680
ttctttttca gatgatgaag tctgggtgca agtagcacct cagcgaaatg cacaggatca   1740
gcagggttct ttgtaaatag tattttgaga cactaagatg tttctactgc tacggaatgt   1800
attttaaaca catatcgttt ctttttcttg gaaaaaaagt tgattaggac cacagatttg   1860
gtttagaaag ggtaatattt tgaaatacta caaggtttag acagtccatg aaatcgacct   1920
gtttaataat ttaccatcct gaaagtccag aattaaaata tggaagcaag aactatataa   1980
ttgattagga tgcttggtag gtttttttca ttgttcaaat attcattgca cagtggattg   2040
ttttgattag ttagtatgct tttttttaa ttaattcagt ccttcctgtt aatttttaag   2100
ttttggttag tgcccacaag gaatttaacc ttttgatttg tataatagaa aactgaacct   2160
aggaattgtt agccggggtt ttgaaggatg tgtacctttc ccttcaaaat aaagtggtag   2220
attttcaaaa ttttacacta gtcagttctt tatattacta agttaaatgg tagtttggta   2280
aaattatttt gggttttcct tcctacaaag gaaaaaattg gatttatata tataaggtta   2340
ctgcataatg atttcatttt gataatgtgc agaatggcct cataagctca cagaaagtaa   2400
aaaaaaaa                                                             2408
```

```
<210> 3047
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)...(506)
<223> similar to gi2370153 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
<400> 3047
ggaattcctc gagccgccac gatgtcccct gcgctcctgt cccctcccgc gtagagcttg     60
cctttgttcc aggaatagcg ctccaggctc ctgctgccgc ccctgggcct cactctggag    120
cgggctgcct ccgccctctc gtgacagctc agcccctccc atgcacattt ggacgctgtc    180
ctgcgctcca gttgcacaaa gctgagctcc tgttacacac tgacagacca ctgacagccg    240
ccgctgccaa ccccctcct cctcaccaga cttccagacg actacatcat gctgcccaca    300
gacctgcgct gccactgcca tcgccatcca tcgcattcca ccgacagact gctgcttcta    360
gtgatctgta ctcacctcgg aggtatctgg gctggacaca gccctggac aatgatccag    420
acagctggct gcccctcaag ggacctgtta ccttcagcga gacccatttc ctccccaatc    480
ccagagactt tttgtgctcc tgccacatgg ctgccagggc tcagttgtgc ctggcagcca    540
aatcgagtct ctcatttct cttgtggacc agttagtttt gcccagaatc catttctctt    600
ctgaatttgc agcattttct caggtgcttt ttgatcaaca aaataacttg tatcttctgc    660
ttaactcctt tatactacct ggagaaaagt attttccata ttttcaataa atgtcagaca    720
ctattgagaa aga                                                       733
```

```
<210> 3048
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)...(579)
<223> similar to gi1620403 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


      <400> 3048
ctcctgggac ctgcactgga ggtagtgtcc aacctgtgcc cccagcaagg caagccgggg     60
agggagacgg gagccgggtg gcccagggct cctgtgcttg gagtggggga ggttgggact    120
ctgcagaggg cctgaggggc aggaacggga agatcccctc ctcagtttat ccacctgagg    180
gcccccccgca gtgccctcct cagcctcact ttgttctgcc caggggattg gccgtggacc    240
atgaggtttg gaacagaaag cctgcccctg gtttcacgct cagcaagttc cttctcctgt    300
aggaacccct gatccacagc ttctgtgtct gtggggtggg ggtggcaatt gtggccccat    360
ctgcttccca ggacagttac ggctctaagg tgtggtcttg gctgtggtga tgcttgccaa    420
gacactgccc ggggtgtggc atcagccttc cctttgccca caggacgatg ccctgagtct    480
ctgttcatcc attgacctgt gcagatgcac aggacacctg ggtggggccg tggggacacc    540
aggatgagtg gccatgtgtg tgcctgcaga gggtggtgtc ctcatgaggt agaaggcctg    600
ggagccggct ggaagtaggc tgctgggccc cattgcaggg gggaccgcgc cgtgatgcgg    660
cttgcagggg ccccgggca gcggggctgg ctctgctgac gcccacatgg cctgggcccc    720
acgtgga                                                             727


      <210> 3049
      <211> 1148
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (182)...(751)
      <223> similar to gi156250 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters


       <400> 3049
agagtgtccc cctgtagacc tgttagagtg ctggaattcc tgcagtaaat gcacaacccg     60
gacggaagtg cctctccgac agcagatcca ggctcggagc tccagacgct gggacaggcc    120
gcccgcagac cacccccgcc gcgcgcggga cacgacgccc cccgcaggac acgcccatca    180
gcccggaaac ccctgagctg cttctcccgg aggccgatgc ccacccggga gcccccaaag    240
actcgcggct cccggggca cctgcatact cacccgcctg ggctgggcc cccgctgcag    300
ggactggcgc cccgaggcct caaaaccagc gccccccgcc ctccgtgcca gccccagccg    360
```

1849

```
ggaccccaca aggcaaagac caagaagatt gtgtttgagg atgagttgct ctcccaggcc      420
ctcctgggcg ccaagaagcc tattggagcc atccctaagg ggcataagcc taggccccac      480
ccagtgcccg actatgagct taagtacccg ccagtgagca gtgagaggga acggagccgc      540
tatgtcgcag tgttccagga ccagtacgga gagttcttgg agctccagca cgaggtgggg      600
tgttgcacag gcaaagctca gggcagctgg aggccctgct gagctccctg cccccacccc      660
aaagccagaa ggaggcccaa gttgcagccc gggtttggag ggagtttgag atgaagcgaa      720
tggatcctgg cttcctggac aagcaggctc gctgccacta cctgaagggt aaactgaggc      780
atctcaagac tcagatccag aaaattcgatg accaaggaga cagcgagggc tccgtgtact      840
tctaagtgcc cctgcagatg ggcagaggga tgcatgggga tgcaggtccc ttgcatttct      900
tggtatctct cagcttttcc tcttgcagct ccccctacca ggggtcgctt tctcctggat      960
tgcaaatgcc tcttcagttt ggactcagct ctgacagccc ctcctccagg aaggccttcc     1020
aggacttcct cctctgggtc ctctagctct gaccctacag ggactccaga tctcaacctg     1080
ttccctggaa gtagggcctg ctctccatcc cagtgaaata aacatgtatt agacacctaa     1140
aaaaaaaa                                                               1148


<210> 3050
<211> 1538
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (322)...(1264)
<223> similar to gi4995751 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters



<400> 3050
aattgggatc cttagagcag cgtggcggaa ttcatccaca gtcacttctg ttcattttta       60
atgaaaacct attgctgtta ttttctatta tgagttaacg gtgatgtgtg tttttttaaat     120
tttgtatact tgctctcacc ctaaaatata ccttaagaga cttttcccct gtttttctttt     180
ctgctttcca agactccagg aaaaacagct tccatggcac attttgtaca gggcacatct      240
agaatgattg ccgcagaaag ttctacggag cataaagagt gtgctgaacc atcaacaaga      300
aagaacttga tgaattctct tgaacaaaag ataaggtgtt tggaaaaaca aagaaaagag      360
ctcctggaag ttaaccagca atgggatcag caatttagaa gtatgaaaga gttatatgaa      420
agaaaggtag cagagctgaa gacgaaactg gacgccgcgg aaagattcct cagcacgcgg      480
gagaaggatc cgcatcagag gcagagaaag gacgacaggc agagagagga cgacaggcag      540
cgcgacctga cccgggaccg gctgcagcgg gaggagaagg aaaaggaacg cctaaatgaa      600
gaattacatg aattgaaaga agagaataaa cttttaaagg gaaaaaatac tcttgcgaac      660
aaggaaaagg aacattacga atgtgaaata aaacgcctca ataaggctct tcaggatgcc      720
ttgaatatca agtgttcatt ttccgaggac tgtttgagga agtctcgagt ggaattctgc      780
catgaggaga tgagaacaga aatggaagtt ctgaagcagc aggtgcaaat atacgaagaa      840
gacttcaaaa aggaacgatc ggatcgagag agacttaatc aagagaaaga ggagctacag      900
caaattaatg aaacttccca atcccagttg aacaggctga attcccagat aaaagcttgt      960
cagatggaga aagaaaaact agaaaagcaa ttaaaacaga tgtattgccc accctgtaac     1020
tgcggcttgg ttttccacct gcaagatcca tgggtaccaa caggccctgg agctgtgcag     1080
aagcaacggg agcacccacc agactatcag tggtatgctc ttgaccagct tccgccagat     1140
gtacaacaca aggcaaatga tggtgtcttg ctccacctcc agtctgttgc caggctggtc     1200
tcgaactcct ggcctcaagt gatcctcctg cctctggctc ccaaagtgct gaaatttcag     1260
gtttatcctc agtaaagaaa gtccatccgt agaagtacac actaacagag agagacaaca     1320
ggcaacgagg gagcgtggct gaggaccctc ttctttgttt atactgaggc ttgtttctgc     1380
```

1850

```
cacaaaggca catcatctac cctgttattt gtgcctggtc atgttttcct ttggtatgaa    1440
tacaggaaaa ggcttctgac agctaagatc ctgatcaaat tggaggagcc agttattata    1500
caaccaaata caacttccag tttccttgaa aaaaaaaa                            1538




        <210> 3051
        <211> 2780
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (36)...(896)
        <223> similar to gi666095 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




        <400> 3051
gcggggaatt agctgggcga cgtggaggag gacaggtggt ggccgtgttc gtggtcacct      60
tcgaccccg ctcgggaaac atggtagaat ggtgcttacc tcaagatatt gaccttgaag     120
gtgttgagtt caagtctatg gccagtgggt cccataaaat ccaatctgat ttcatctatt     180
tccgaaaggg gcccttcttc ggcctggcct gctttgccaa catgcccgtg gagagcgagc     240
tggaacgtgg cgcgcggatg aagtctgtgg gcatcctctc tccctcctac acactgcttt     300
accgctacat gcacttcttg gagaaccagg ttcggcacca gttggagatg ccaggacatt     360
actctcatct ggctgccttc tatgaggaca aaaagggggt gctccatgct ggtcccggca     420
gaggcagcag cctgcccct gtctactggc tgccttccat ccaccgatac atgtaccctg     480
agatgaagat cacacaccca gctggctgca tgtctcagtt tataaagttc tttggagaac     540
agatcctcat cctctggaaa tttgccttac ttcgaaagcg cattttgata ttttctcccc     600
cacctgtggg cgtggtgtgc tatagagtgt actgctgctg ctgcttggcc aacgtttcac     660
tgcctggcat cggggggcacc attcctgagt ccaaaccttt cttctacgtg aacgtggctg     720
acatcgagag cctggaggta gaggtgtcct atgtggcctg caccacagag aagatattcg     780
aggagaagcg ggagctgtat gacgtctacg tggataacca gaatgtgaag acacaccacg     840
accacctgca gccgctgctg aagatcaaca gtgctgacag ggagaagtac cgccggctca     900
acgagcagag gcagatgctg ttgtactccc aggaagtaga agaagactac aacccttgtg     960
aagaggacct cttcgtgctg tgagtcctgg ggccgtggat gtggagtctc cctgaggatc    1020
ccttcggcac tgagtgacct gcatccctcc catgtcattc actgcgggcc agggatgccg    1080
tttattgctg ccaagggcac ttagagccgg gctccttaca gaggcaaacc tgagccctga    1140
aatgccatta gggggaaccc agaagactta gggaaagaag caggtccctt aagagaaaac    1200
aggagtctta gtgtttcttt ccttgttggg cttttacatc gaggatgtcc actgcctgga    1260
agctctgtct gtccctcagg actcagggac ttctcatttc cattgcctcc tttgaataga    1320
gtagttcctt gcgctgaata ttatgggata atctgaaatt ttaattcttg aatcaaatga    1380
aatctctttg ccccgtaggt gcagaagcca gggcctttcc acctcacagt actgatttca    1440
ttcctagaca gctgggtgaa gtagccttct gtggcatcaa ctgaattctc ccagcttcct    1500
gtttggtctt ccaggggtga ggttgtggtt tgatgctgaa aacttaatgt gggcatttct    1560
acaaaggtgt agcaccttga ttctaatagt ggacttccta aaacctacat cctgtttagg    1620
tggaaagtat ctgagacttg agcacagcca tagtctcatc caggtatgac atgtgccact    1680
gtgtctgaaa ttcctgagca ccgagggccg cttcaggcac caggcacttt gccaacctga    1740
gagctgtatg gggctggact gtctagtcta actaggcagt gaaccctgtc ctgaacagag    1800
cttgtttgtt cataaagcac tctaaagcag tgacttttaa atcttgatct gtgcataatc    1860
tcactcctcc ccaaagagtc atccaaggga gagcaaaaca cccaagggta acggttggct    1920
cacggttcca tttgttgtt ggttgttgaa ttttgctttt cctcctatga cttaagcaga    1980
aagagggaaa agcagtgttt ggggggcctc ttctcaggct gtgtttaaaa cccaggtcac    2040
```

1851

```
tttccctcaa caggaaaatg gattttgaca ggccatcttg cttagagatt tccctaatca    2100
caccataatt aatgccaaat ggtttctttg ctaaccttag tagcacttga ataattaact    2160
tttactctt  tcttttttta aaagatacct gcgaatccac tgaaaagtac attaaacaaa    2220
acagtatagt tttggttccc catatgtgga ttatctggtg agctttttat tccccccgc     2280
ttcctttcct gtgtcttgtc ttccaaatgc aggtttttcc tagaacaaaa caaccggata    2340
tttcagactt tgttggaggt gtctgccagt caagacaaaa ctctgacagc agagcatgcc    2400
cggggcatgg gcctagaccc ccaaggagac cggagctttc tcctggacct gctggaggcc    2460
tatggcattg atgtcatgct ggttatcgac aacccctgtt gcccgtagga ggagccaaca    2520
ggactgggag ccgcttcacg tgggatgtca gcagccggga gttcacccca gggccccaga    2580
gggcctcatt ttttattaag ttgacacaaa ggaatattgt ttatactttc caacaaacat    2640
aatttttgca atttcctttc tgccctttc cctagagata aggtgagatc accttggttt      2700
tgtgtcctgc catgttagga tattggaatc tgccactttc tcccagagct gctggtcctc     2760
                                                                     2780
tgggcttggt catgggagtt
```

```
<400> 3052
ttttttttt ttcgaatgcg cagtgatgct ttaatccccc tgtttgcaaa cgagctctgt      60
ggaagctcag caggaaggat ggaaagatgg ggaggaagac cctggcgggt ggaagtgtgg     120
ccagggacac aaggctgccc ttatgggact gaaagagaaa gctgctgggc tctgtgtgac     180
tggaaaccag ggaaggagac ctggctgagg caggaactgg gtttgccagc agtgcggagg     240
ggcagcgggt ggctcagaag tgggagcagg tacacagaag gagctcaggg catgcctggg    300
gcatctccaa agctctgctg agagtgaagg ccaggagcct gtttttccttc cccagaagtg_   360
tgctcatggg aaatggggca gggggcaggc tggcttgggg atggaaagta agcttacact    420
ttgatattaa actcattctt tgacttgctg tcaggcaaga agcccattct gtgagcttca     480
gcatataagc attgggaggg tgtgagctgg ggctcccaga cacccccaga gcagagggag     540
cagggcctgt cagcctcctc tgctgctcct ggacagagac ccacggggtc ccatgggctc    600
caaacctgcc cagcaagttt aagggccgtg ggcaggcctt gtagccgggc aatgggatgt     660
gagcagaaac gagaatgtgg cctagcagtg ggtgcaggac aaggagaggt gaaccccacc     720
ccgagagcat tccgggaggt gtcatcaagt ctcttaggca gtctggtgat atttggtgtt     780
ctgagctaag gagggaatgg acttgtctgt cacgcagggg ccaagagaag caggtgcagg     840
tcttagagct gagccttggg gaggggaccc tagtgagaca gcgcctccgt ggagtagaag     900
aaggggcagg atggaaatca aggtgggaat tttggggccg cttctccatg tgtgctttgc     960
tggacagcac attgtcccat tagccactac caaacccgcc tctggcttct gagcttggca    1020
gcacaggaaa acgcggaggt tggagcaccc ccaggagttc ctggagtggc tgtcacaggc    1080
ctgggtcccc ttcacccaa ggccgccgtg ggccactcca ttcctcagca cgttcctggc     1140
agtgactccg tgacgctgtc ttcctgactc ggggcccagg aacgagctgg acgtaaggcc    1200
actgggctgt gcttgtgctg gggctcccag aggcatccgg gggccccgtg tgtcccccag    1260
gaaagccggc tggtctccaa gtgaggcgaa gacccgtgcc cagcagacaa ggccggtctc    1320
ggggctggca gagagctgcc cccagggtgt gtgtcaggag gtgacggctg gagcctcgtg    1380
ggcgggtgaa gtgtgtctgc tgggtcagca ctgcccagat ctgccatcgt gttcggaccc    1440
```

1852

```
catccctgca ggagctgggg caggtggaga tggtctagtc ctcctggggc ctctccacag    1500
tgagaaacgt gtccaggact gtggcctgcc gctcggggtc gcctaggggc tgcttctcgt    1560
ggctctgctc agcccttgtc ctcgtccagc ctcgtgccaa gcgtgg                  1606
```

```
        <210> 3053
        <211> 1338
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1339)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (1338)...(351)
        <223> similar to gi2894086 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters
```

```
        <400> 3053
tgccatacat tcatgcatgg tcagctctga gcccctcagg aatagaaggg ccttccattt      60
aaaacagctt acacctggag acaacaaaca ccaagaaaca tgcaaacact acagagaatc     120
tgtatgtgaa gaagtcatat tttatattga tgagggtgct gttagaaaat gttgatggat     180
ggcttcggtc actcatgcta gtctaaccag aggggcctgt gacggtgtct gcttctcttt     240
caggattccc agttgtttct gtgtcaggca ctaagcaatc tggcggcttt tggtccaaat     300
gggtatttta gttgtctttt tgcacctttt aatccctctt cgaagagtca agttcaaatg     360
ctggaaaccg tgatgtctct ggtcccagga catcagagag aaagtgaata gcgccagcca     420
tgccttcaaa gagcgaatag ggtctgtcag gaatgcggca cccgtgtgct ccgtaatcta     480
gacaccactc tgcaaacttg caagctcggt agaggtactt cttatcctgc gtgagacggt     540
aaagggacag gaaggaatag ccgttgccag cagtcccatg gcatatcccg tagcccttcc     600
gcagcaaacc tcgctgccaa atcacatcgc tacactccat ggcctctttc aagtacttct     660
cctccttaaa gaccttgtac gcctgcatga gcatgtggat gacccccggg gcgccgtggc     720
accagtgcac cagccggtct gtttcattgc ttaatgatga tgggtaattc ccagatcgga     780
attttttgtg gcgcacataa tcaatactgg gtttcaccat ttctgtcaag gtttcttggt     840
ccactttgc tgccggctgc attaacatat agtaaattcc agccatgcca tgggctgctc     900
caacgtactg cttccggtgc cactggtaca acagcgggca gcgctccgtt tttctttctt     960
cccttgacaa agtcttaccc gattcaataa tagcattgac tacctcttta atagctgact    1020
cacacacggt gcctggacct atctctgtgt tcaggtacag taaggcatac agataacctg    1080
cccgtccata aagcagctca tcaggaaggt ctgattcttg gcaaacaacc gatctctgga    1140
gctgcaaaag tttttgtgga cacattcctg gggggactca cagtgcactt tttgagtttt    1200
gtggataaaa tcacaggttc caacaggcca ggggggcccc agcattcccc acagaggaag    1260
gttgancccg cgggccnttc agatttccna agtgttttnt tttttacgta attcnggggn    1320
ttcggagcag gntaggtt                                                  1338
```

```
        <210> 3054
```

<211> 1673
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (46)...(498)
<223> similar to gi5114351 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3054
```
gcggccgcgg cgcccgcgcg cgacggcccg gccagcgagg ccgcgctgca gctgctgtgc      60
cgcgccgacg ccggcccgct ctgcgccgcc tgccgtatgg ctgcgggccc cgagccgccc     120
gagtgggaac cgcgctggag gaaggcgctg cgcggcaagg agaacaaggg gtctgtggaa     180
atcatgagaa aggacttgaa tgacgcccgg gacctgcatg gccaggcaga gtcagcagct     240
gcagtgtgga agggacacgt gatggaccgt aggaagaagg cactgaccga ctacaagaag     300
ctgcgggcct tctttgtgga ggaggaggag catttcctgc aggaggctga gaaggaggag     360
gggctccctg aggacgagct ggctgacccc actgagcggt tcaggtcact gctgcaggcg     420
gtctcggagc tggagaagaa gcatcgcaac ctgggcctca gcatgctgct gcagtgatgg     480
cgccaacccg tggcagtccc agagctggag gcaggaggat ggatcctcat ctccatggga     540
agtgtcagcg tgtggctgcc agggaagcgt ggcaggcgcc tggccttggg tccatctaca     600
tagttgcgtg tttcaacaat gtccatttat ccttcacccc gaggcgtgtt ttggggggctg     660
caaacacctc ccggtagagg ctggacctga ggacccttcc cacctgtgcc cgtcccttcc     720
tgaagtccta gccacagccc atcctccatg agtcccggca gctctgggtc atgcccttcc     780
ctggtcaccc atctgcccct cacccgtcat ccagggaccc agaccctgca ccttccatgt     840
gggcccacag atccttggca ggtacctgag gtgcaccatt gagtgtcgga tttggggtta     900
gcatccagaa agaagaatgc gcatgacgct ctgtgaaggc tggaactcag gtcttcaggg     960
agagaaagga agactggatt gcaccttgat gcctcctgag gaggcggccc ccctcttgag    1020
gtgggcgtgg gcccggccca gccttatcca agtcgctctg tccacctccc ccttcctggc    1080
ccccacccca ctcctgtgcc tcccaggagc cctccctgtg ctccacctgc ctccgcagaa    1140
ggaagcctct ttctctgttt ccctgggtga gggggctggc aggtggctaa ccccatttag    1200
catctccagg ccctgccatc gtgtctcatc ttgctgttat ctctagctct ttccctcctc    1260
ccatttcctt tagtagttga attttgcaaa gcttgtagca gtagctcagt tgcctgcagc    1320
atccttgtgt gtagataaat tagtcgacag aaactcagca ctggggacag gattgcaaag    1380
tcggggacat agatgcagac agttgttgag atttggggat agccgggctt gtgagcggtg    1440
cccatttcca gatgaagcct ttcagccctt ctgagtcccc ggcccttggt gcgatgtctg    1500
tgagtttgac ctgcccagcg tgtgggctgg ctcaatgctg aataaagtgg gtttgtgtca    1560
gctcgtttgc ttcgtctccg tgtgtccacc tggcctcttc ccctgccct ggccaccctc     1620
cagtgtcaaa ggaaacttcc tcgtgacacg tgctaaagca tggtgaggag gac           1673
```


<210> 3055
<211> 1009
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1010)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (83)...(851)
<223> similar to gi6684 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3055

```
tttttttgctg atataaaaaa tagtggcacg gcacttttta ttctctttaa tcagaaaaat      60
aagccctgcg cttctgggat ggaggcccca ggtgagcacc ggaggaaggg gcccgggtgg     120
gtggggagcg aggggggcccg gaggccaaag cagatgctgc accagaggct ggtcagaacc     180
cgggagggcc tgcgggggtg gggtcctcat gagcaagtgc ggggtgctgg aggtcaacaa     240
ctgcctggcc tgggagccag ggacacccat ccccttcctg acacctgagg cggcccagct     300
gggcaagacc aggcctgcag gaccagagcc tcctgtcacg tggcgcaggg gtccaggtgg     360
tcaacgctgc tctctggagg accactggtt agagcctgcc cagctcccct gaggtctgga     420
gacagtcaaa gcccccccaa acaccccctc ccttttgggc gagtggcgtg ccttggactc     480
cagaagactc gagtgggggct gccttgagac caggtcctga gggggtggca acacctgacc     540
acaggtgggg gccgtggaag gggcagggat gggcccaggg gtagccttgt agtgtgaggt     600
gtgcccgacc acatgtaggt caacagccag acgggacgct gcaggggact gtggggaagc     660
cgggagaagg cgctgcccac cctgtggggt cccctcgcc tggagaccct gcaggcaacc     720
cttcagtgca tgcccacggg ggtggtggag gcagagtcct gagaggtggg ggtgggagcc     780
tccgggtccc ctgcaggtcc tgacccacca gatgggccca tgtgcccccct gtagcttggg     840
ggccctggag gtggacacca gcacctcctg actaccaggg ggagggcctg gactgaaacc     900
cacaccttca ccattccgcc actgggccaa tctngcagga actgaggcac cccacagatc     960
cttcatgccc aanacgccac tcactctcac acctcttgca cacatgcaa            1009
```


<210> 3056
<211> 2535
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2464)...(459)
<223> similar to gi458888 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3056

```
ttttttttttt ttcacacttg gccagtttat taaaggcagg gagcttcggc agggtccaaa      60
agggagaagt tgggagatgc cccctcctca gctccctcct tccccaacaa ctcttctaca     120
gcccagcccc cagggcccag aggcagggct ggcgtcaggc agactgtact gcataaatac     180
gtggaggcca cagcccgaat cagcagcgtc aggggcagg gaaactgggt ttgggatgag     240
aagtgggtgg ctctgggggc acgtccccca gtgcttgtcc agagcccagg gacccacaga     300
gccagagagg ggaccagtgg gccagcttgg ggtctggcta cggccagccc tgcccagcga     360
ggctggcagg tggctctggt tttgggggag aagtggggtg gggtgtggcc atgccacggc     420
ccacggggac agggtggggt caggtgctgt tgccctgctc ctgttcaaag agtagcatgg     480
ccagctgggt tcgggagccg aggccctcaa gcacgctctg gaggcagcgg tggtacaggt     540
cctcactgag cctcgcgctg cacgtctggg cccggtagcg ctgcagcagc gccggctcca     600
```

1855

```
ccgcccgcag cacatgcaga ctggagaagt ggaggaacag ctcgtacaca tccaggctct    660
ccagcagctc ctcttcttgt tctgaggctg ccgccaggcg cccacgggct gccacgtagt    720
cggagttgta gaagcaggcc tcgctggctg cctggcgatc aaagcggcca gtgtcacggc    780
ccagctctgg gggcccaggc ccttgtggtg gggccacagc tgggtggaag gcttggaaat    840
gcatgggaaa gaaggcctgc cagccggaga tggcatgcat gcggcagcgg ttcaggaagt    900
caggcgtgag caccgtgtct ggcccggcca gcaggaacag tgtgtccagc gggtgcttct    960
tggagagtag atccatgagg cgcagtggtg agggtgcggc tgtctgcaca ctgagccatg   1020
gcacccgggc accggggaaa cgccgctccc agctctgcca catgggcctt gacaggtgcg   1080
aagacatctg ccatgggcca cgcgctgggc cctggcgcgg ctccatacaa ttagcaagcc   1140
agggtcaagg ctgccgcagc atcaccaggc tccagtgctg cagtggcaaa ggcctccaag   1200
aagccagggg cccaggtcac gttcagccgc agctagaggc agcagcacag tgagacgtga   1260
ggcctcagtg acatagggca caggcaagat ctccacgcgg ctcagcggcc ggagcagctg   1320
cactcggcga gtgaggggcc ggcggcctcc ctggggggtc agtgcctcca gctgcaagtc   1380
cagcgtgtat tccatacccc gggccggatc aaagcgtcgg tagccattca ccagctgctg   1440
cttctggagc cgcaaggccg ggtggtagcg gcggttcagc tcctctagag ctgtccccag   1500
aacatcggcc acatcagccc ggtcagcccc acgcagtggg cagcggggtg agccatcggc   1560
gcaggagaaa gcatgctgct ccgtgaagta gtcccagcgc agcacctcaa agcgggaggc   1620
cgggcgggat ggtgctggaa tacccacggg ccaagcagct gcccggtccc catcaacggc   1680
cagatggctg gtattctgga tctcccactg taactcctgg atctcctggt acgtgcgttc   1740
cagttcagct cgggcgaaag ctttgtgcag ctggtacatg tgcacagggt cacgcacagg   1800
gtgggctgtc agggcacttc ggaaatgagg gtccccctcc tgcactggct ccccagggct   1860
cagctccaga tggctatagt gcaccccctc gtggtcacca gtgcagccca ccccggtggc   1920
atcgagaatg cagcgaccca gccactcgtc agggcgcgca ctgacgatgt cgttgcggca   1980
gccttccagg tgggggcgca gttgttgcag cagcatgcgc gacagcagca ccccaaagcc   2040
tccgtggcag tagcggccgg gggtgggctc tccgccgatg aagtcctggg gccggcccag   2100
gtacaggtgg gcggcggagg ccaggctgag gtggcaagtt aggcgtgcca ggccgtgcgc   2160
ctcggtgtag gtggtgtcag gcaccaggaa gaaccagtca aagtcgtcgc cgtgctgctc   2220
cagcaggtgg cgcagcgcca ggtgcaggtg tccaatgggt cgctcctcgc ccagcgtcac   2280
cactgccatg ccaggtgggg cccggcggcc ccgtgcgccc gtcaggaaca ccacacgctc   2340
cagccggtgc cccagcgtgc ggttcacggc cacgcccagc gtgggcagcg tggtctgaga   2400
ggtcagcccc gccaccagca gcctctgcct gatgcccagc tccgtgctga tgtagcgggt   2460
cctaggggag gagatggcac aagcttatca aaaagacgaa ttccaccgca cggtctaagg   2520
tctactattg tcaac                                                    2535
```

```
        <400> 3057
agggaagtct tatgaatgta aggaatgtgg gaaggtattc attttttcc gttcctttcg    60
taaatatgaa agggcacaca ctggcgaaaa gccctgtgaa taaacaatgt gggaaaggat   120
ttttcatatc ttctgtggag ctttgaatgc atgaaaagac agactacaga gaaatgctaa   180
atgtaaggcg tgtataaaag catttagtaa tttctcttcc ttgcttatac atggaaggat   240
```

1856

```
gcacactgga gagaagccat atgaatgtaa gaattgtggg aaagccttca catctgccaa      300
gagccttcaa aatcatggaa ggacacacac cggagagaaa ccatgtgaat gcaagcaatg      360
tggcaaagct ttcatttgtt ccagttcctg tcagagacat gaagagacac attctgttaa      420
tatgcattca gttatcctaa ttcctttgaa acacagaaaa agagtaggga aaggacctct      480
gagataactg ttttctgagt tgagaagagc tacttgtgaa tggacaatta aatctagatg      540
tatttagatc tgatacaatt catctgtat                                        569
```

<210> 3058
<211> 1315
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1312)...(388)
<223> similar to gi4929607 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3058
```
tttttttttt ttgaagttca tcatctttag acttaaggaa ttaacaaggg tcagggagac       60
tacaccaggc tgagggcttc ttggttcctg gagacatgcc cagctacagc aaacacaggg      120
aaacacgaag ggggcagctg gaagatttgg tcttgaactt ggggggtggg taagtgatga      180
tccccacgac tggagcagca ggaagaagtt gtgtctgagg aagtgctggg ccgcccagag      240
ggacagccct gccctggagc ttgtcgccgg gagggaaggg aaacaagccc cctccctcag      300
tgctgaggaa aaggcacttg gctgggtctc ctcctgccct ctccccatcc gtgggagaga      360
cggggtcctt gcctccttgc ccctttcagc cgcccagaag ccggtcctgg ttcagcctct      420
ggaagaagct tttgccgaac tcataggtgc tgatcatgat ggcacaggag ggggcagcct      480
tgatgatccg aggaaggaag cctgcaaaga gtcccttggt gcccgactcg gcccggatcc      540
tccgcagcag cagccaggtg gagtccacat gcaggggtt cactctcaca gcctccatcg      600
ctcccagagc gacctggcgt tgggtcttta ccacgtcaaa gggtagagtc agcactgcag      660
ccaccgtccc tgagatgcca ccagccacaa agctcatgcc cacagaagtc tggtccttcg      720
gcctgaaccc attgagccag ctcttcacca gctcatagtt gaaccagtac agggcttggg      780
gtgggggatg cactgagaag ggcacatctc gaagggcagt ggggcccag cccagccaca      840
gtgagcgcca gccaccctga gccactgcag ttcgaacaca ggcacccagc tcccggtacg      900
acacatgctg agcctgcagc tttgtccgca taagctccag ggggctgatc acagtcacgg      960
tgcccactgt gtggggattg ggggtgacaa tggggagaag tgagatcaca ggtcttacat     1020
ggcatcacct acctgctgtc ccaggtctgg ggacctagaa cacccccta tccctaggct     1080
ggcagaggtt ggggctggga gctgggactg actgggtttg gcagaggtg gggacagagg     1140
gaggtcaaag gcccaagact atgctcacgg cgggccagcg cgccagccac catgggtgcg     1200
tagaggtcag aggtcagggc tcgaccacac aggaaggcct tcagttggtc ataggcagtg     1260
aagtagatgg cggtagctgg cacagtcatc accagggtgg cggggagctc gtgcc          1315
```

<210> 3059
<211> 1441
<212> DNA
<213> Homo sapiens
```

<220>
<221> misc_feature
<222> (1)...(1442)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1113)...(11)
<223> similar to gi5262557 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 3059
tttttttttt ttaatttcac tccttcatga ctgtcacatg gacaaaatga aactaaactt      60
aaatcataac taaaaaaacc accaactata tttttgaaga tttttctaat tcttgccact     120
caaaggacaa cattttccac accggtttgt atgttatcct tttggtcatt gtcttctgaa     180
ccaatgaaat gttgattctc caagggattt gagttttcgt ggcacacgtc acctattttc     240
tcctgctgac ttgggctttt gaataagtgt ttcttttggt gcattccaag ggcagcagct     300
gttttgcaaa ttttgggggca ctggaagcag gcatagccct tcccattatg ctcccgaata     360
tgcctctgct cgtgattcct tttggtggag agatacaaaa atctctgaaa gcagaactga     420
cagtggtaac gcttttctcc agtatggatt ctttcatgga ttttgagggt ctcattcaag     480
gtgaatgcct tgttgcaata ctgacagacg aactccttca agcccaggtg gatgcgttca     540
tgtttctgta agtttccttg caccgaaaag caccgtccgc aggtcttgca ctggtatggc     600
ttctccccgg tgtgacatct catgtgcatt ttgagtgtgg aagggctctg gaactgcttg     660
gcgcagagct cgcaggcata tggccgagaa gtaagatgtc ggtggggcct tccttggttt     720
ccagccccca ctgctttgtc tccatcacag agttcacact gcagcttggg catctcttta     780
gtttcttctt cctcaaaggg tttatcctga ggagccttcc ccacggcgca atccagttct     840
gctgggtatt tacatttatg gctcgggctc ctgtttccgt gctccttcct ccagttgact     900
ttcctcattt ttttcaactg tctggatttc ttttttgggtt tgtagttgta gtaagggcgc     960
cacggtttgt cagtggaatc ctggtcactt gcgtcatcga acacttcact catctccatg    1020
cactcggatt ggcaaagacc gagtgggctg tctccactgg gttatgggtc attccctgt     1080
ggcaaaggct cctcctgcat ctgatacttg ggtcttctcc ctcttttata aaacaattta    1140
gatcatagaa tgtgcctttt cacaatggct tcgtttccaa ttttcactgt tatttggcaa    1200
aggggtgcaa cattactatt tgtggaggtt cccggcagag caggttttgc aatgtaggtt    1260
tcaattttgc tggtttcttc agcaatattt gtggttttgc tcagtgatcc tccaggatca    1320
gcaacatagt ttgactcaac cggtatttct cccctggtat gtgatgtagt tttctttttc    1380
tccttagtgc ttttgggtct gaacttccnc gcnnattgct aatgaactcg aangagcccc    1440
a                                                                     1441


<210> 3060
<211> 1951
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (45)...(1907)
<223> similar to gi186774 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


1858

<400> 3060

```
ccacccctcc accaccaccc cctgccccac ctgcccagct gccctgccca cagtgctcca      60
agtcctttgc ctcagcttcc cggctgtccc ggcaccggcg tgcagtacac gggccccctg     120
aacggcgtca ccgctgtggg gtttgtggca agggcttcaa gaagctgatc cacgtgcgca     180
accacctgcg gacacacacg ggtgagaggc ccttccagtg ccactcatgt ggcaagacct     240
ttgcttcttt ggccaacctc agccgccacc agctgaccca tacgggtgca cgtccctacc     300
aatgcctgga ctgtggcaag cgcttcacac agagctccaa cctgcagcag caccggcggt     360
tgcacttgcg gccagtcgcc tttgcccgcg cccccgcct cccatcact ggtctctaca     420
acaagagtcc ctactactgc gggacttgtg gccgctggtt ccgcgccatg gcgggcttgc     480
gactgcatca gcgggtccat gcccgagctc ggactttgac gctacagcct cccagatcac     540
catctcctgc cccacccca cctccagagc ctcaacagac tatcatgtgc acagagctgg     600
gggagaccat cgccatcatt gagacatccc agccactggc gcttgaggac accctgcagc     660
tgtgccaggc tgcactgggg gccagtgaag caggcgggct cttgcagttg gacacggcct     720
tcgtgtgacg cagctgaaaa gcaacaacaa aagggtttgg ttgcaacagc cagtgtgggt     780
acctctgggg agagaggacc tcctctgaca aactggtctg gtacccacca tgtgccagga     840
tccaccctgg cctctttta cccactgact ccccagaaca acccttccag gcttctcttg     900
tcatctttct ctgcctgagg ggaaactgaa gctctgaaat gcgatgtgat ctgtaccagg     960
tcacccagct atgctgcaaa gtgggttggc caaggccctt tgcactgcat caccctggtg    1020
cccagcaaca tcaggtaacc ttcactgagc accaagctta tgccaggtct gtgctggcca    1080
ctctcatata cctcttcaga tcctctgctt gtacccccag cccttgcctt ccctggattt    1140
tgggcacccа ggactttgct ctgcctggtg gagggtactt gatttctctg ggcttccttc    1200
atctcaattc tgacagtgtg gaaggaaatc tgtaggtacc caggtcctca gctccagact    1260
gggtgatgct ggagacccag gagcaagtca gcacaggctc tgcccacagg aggcatgcac    1320
aatctggtag gagaaacgca caagtacaga tagcttgctc tctgagtgtg tctcattgat    1380
tcattcagcc tgtgtgtcct aaagcctccc ttctcccata ctgggtgatg ctggggggcag    1440
agatgagtca ggcctaaagc ttctctgggc tgtgatgggg atgtgcaggg acagtgggat    1500
cccaggaaac agacctccat ggtgggagat cacgagttaa ggacttccta gagaaggtag    1560
tccctgaagg aaaagtagga atctggcagt gaaagaggaa aagaacattc caggcagaca    1620
gcactgcaag agggtgagct cttggtgtat ttggagacca tccagttatt catctgactg    1680
cctacctgag gcaagcacca cacttaccac tgtatgtgta ctatgatccc aacaggcttg    1740
tgacatagat ttcatattat ccctgttgta tagattttta aaactggtgg ctgggcgtgg    1800
tggctcacgc ctgtaatccc agcactttgg gaggccgagg cgggcagatc acgaggtcag    1860
gagatcgaga ccatcctggc taacacggtg aaaccccgtc tctactaaaa atacaaaaaa    1920
ttagccagga gtggtggcgg gcgcctgtgg t                                   1951
```

<210> 3061
<211> 2725
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)...(2521)
<223> similar to gi433338 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3061

```
ggaattcgct atatgccgct atcctctggg catgtcagga ggccagattc cagatgagga      60
catcacagct tccagtcagt ggtcagagtc cacagctgcc aaatatggaa ggctggactc     120
agaagaaggg gatggagcct ggtgccctga gattccagtg gaacctgatg acctgaagga     180
gtttctgcag attgacttgc acaccctcca ttttatcact ctggtgggga cccagggggcg    240
ccatgcagga ggtcatggca tcgagtttgc ccccatgtac aagatcaatt acagtcggga     300
tggcactcgc tggatctctt ggcggaaccg tcatgggaaa caggtgctgg atggaaatag     360
taacccctat gacattttcc taaaggactt ggagccgccc attgtagcca gatttgtccg     420
gttcattcca gtcaccgacc actccatgaa tgtgtgtatg agagtggagc tttacggctg     480
tgtctggcta gatggcttgg tgtcttacaa tgctccagct gggcagcagt ttgtactccc     540
tggaggttcc atcatttatc tgaatgattc tgtctatgat ggagctgttg gatacagcat     600
gacagaaggg ctaggccaat tgaccgatgg tgtgtctggc ctggacgatt tcacccagac     660
ccatgaatac cacgtgtggc ccggctatga ctatgtgggc tggcggaacg agagtgccac     720
caatggctac attgagatca tgtttgaatt tgaccgcatc aggaatttca ctaccatgaa     780
ggtccactgc aacaacatgt ttgctaaagg tgtgaagatc tttaaggagg tacagtgcta     840
cttccgctct gaagccagtg agtgggaacc taatgccatt tccttccccc ttgtcctgga     900
tgacgtcaac cccagtgctc ggtttgtcac ggtgcctctc caccaccgaa tggccagtgc     960
catcaagtgt caataccatt ttgcagatac ctggatgatg ttcagtgaga tcaccttcca    1020
atcagatgct gcaatgtaca acaactctga agccctgccc acctctccta tggcacccac    1080
aacctatgat ccaatgctta agttgatga cagcaacact cggatcctga ttggctgctt     1140
ggtggccatc atctttatcc tcctggccat cattgtcatc atcctctgga ggcagttctg    1200
gcagaaaatg ctggagaagg cttctcggag gatgctggat gatgaaatga cagtcagcct    1260
ttccctgcca agtgattcta gcatgttcaa caataaccgc tcctcatcac ctagtgaaca    1320
agggtccaac tcgacttacg atcgcatctt tcccccttcgc cctgactacc aggagccatc    1380
caggctgata cgaaaactcc cagaatttgc tccaggggag gaggagtcag gctgcagcgg    1440
tgttgtgaag ccagtccagc ccagtggccc tgaggggtgt ccccactatg cagaggctga    1500
catagtgaac ctccaaggag tgacaggagg caacacatac tcagtgcctg ccgtcaccat    1560
ggacctgctc tcagggaaaa gatgtggctg tgggagggag tttcccccag ggaaactcct    1620
aactttcaaa gagaagctgg agaaggaca gtttggggag gttcatctct gtgaagtgga    1680
gggaatggaa aaattcaaag acaaagattt tgccctagat gtcagtgcca accagcctgt    1740
cctggtggct gtgaaaatgc tccgagcaga tgccaacaag aatgccagga atgattttct    1800
taaggagata aagatcatgt ctcggctcaa ggacccaaac atcatccatc tattatctgt    1860
gtgtatcact gatgaccctc tctgtatgat cactgaatac atggagaatg gagatctcaa    1920
tcagtttctt tcccgccacg agcccctaa ttcttcctcc agcgatgtac gcactgtcag    1980
ttacaccaat ctgaagtttta tggctaccca aattgcctct ggcatgaagt acctttcctc    2040
tcttaatttt gttcaccgag atctggccac acgaaactgt ttagtgggta agaactacac    2100
aatcaagata gctgactttg gaatgagcag gaacctgtac agtggtgact attaccggat    2160
ccagggccgg gcagtgctcc ctatccgctg gatgtcttgg gagagtatct tgctgggcaa    2220
gttcactaca gcaagtgatg tgtgggcctt tggggggttac tttgtgggaa aactttcacc    2280
ttttgtcaaa gaaaaggccc ctattcccca gctgtccaga tgaaacaggt tattgaagaa    2340
atactggaga gttcttcccg agacccaagg gagggcagac ttacctcccc tcaaccagcc    2400
catttgtccc tgactcctgt gtaataaagc tgatgctcag ctgctggaga agagatacga    2460
agaaccgtcc ctcattccaa gaaatccacc ttctgctcct tcaacaaggc gacgagcgat    2520
gctgtcagtg cctggccatg ttcctacggc tcaggtcctc cctacaagac ctaccactca    2580
cccatgccta tgccactcca tctggacatt taatgaaact gagagacaga ggcttgtttg    2640
ctttgccctc ttttcctggt caccccccact ccctacccct gactcatata tactttttt      2700
tttttacatt aaagaactaa aaaaa                                            2725
```

1860

<221> misc_feature
<222> (1)...(251)
<223> similar to gi5002330 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3062
```
catcaaagaa atcacactgg agagaagcca tacaaatgta ttgaatgtgg caaggccttt      60
gggcggtttt cttgcctcaa caaacaccaa atgattcatt ctggagaaaa accttataaa     120
tgtaatgagt gtggcaaatc tttcattagt cgctcaggcc tcactaaaca tcagacaaaa     180
catactgcag agagtcttaa aacaaaattc aatgtggaaa agcctttaga tgttctccta     240
acttctgggt tcaaataatt catacttatt gatatagctt gtatatttgt cacttccgtc     300
tg                                                                     302
```

<210> 3063
<211> 354
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (356)...(94)
<223> similar to gi1710216 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3063
```
ttctttcaga ctttttgctt taaatattct gtttgaaaaa aatactggtt tcctaagtaa      60
attattttct tggccattca ctgtggctca catctgtgat cccagctctt tgggaggcag     120
gggtgggagg atcacttgat ccaggagttc aagaccagcc tgggtaaccc atctctacaa     180
aaaattaaaa aattagcccg gcatgatggt gcaggcctgt ggtctcagct actcgggagg     240
ctgaggcagg aggatccctt gaacctggaa ggttgaggct gcagcagact gtgattgcat     300
cactgcactc cagcctgggt gatagggtga gaccctgtct ggggaaaaaa aaaa          354
```

<210> 3064
<211> 2729
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1349)
<223> similar to gi505102 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3064

```
gcgaccgccg ctcggtgagg agtggcggag gggccagggc tagccttcag cgaggatgtg    60
cctgagcgtg ttcggcgcga atctgagcct gtcgggcggc gcagctccag cacttgctgg   120
agcagatggg agccgccttc ccgcgtgggc cgtcccggag cctggccagc tgcaccttca   180
accagtgttt aactggctga agagatcttt tcccttcatg gcttttcaaa tgctacccaa   240
ataaccagct ccaaattctc tgtcatctgt ccagcagtct tacagcaatt gaactttcac   300
ccatgtgagg atcggcccaa gcacaaaaca agaccaagtc attcagaagt ttggggatat   360
ggattcctgt cagtgacgat tattaatctg gcatctctcc tcggattgat tttgactcca   420
ctgataaaga aatcttattt cccaaagatt ttgacctttt ttgtggggct ggctattggg   480
actctttttt caaatgcaat tttccaactt attccagagg catttggatt tgatcccaaa   540
gtcgacagtt atgttgagaa ggcagttgcc tgtgtttggt ggattttacc tactttttctt   600
ttttgaaaga atgctaaaga tgttattaaa gacatatggt cagaatggtc atacccactt   660
tggaaatgaa taactttggt cctcaagaaa aaactcatca acctaaagca ttacctgcca   720
tcaatggtgt gacatgctat gcaaatcctg ctgtcacaga agctaatgga catatccatt   780
ttgataatgt cagtgtggta tctctacagg atggaaaaaa agagccaagt tcatgtacct   840
gtttgaaggg gcccaaactg tcagaaatag ggacgattgc ctggatgata acgctctgcg   900
atgccctcca caatttcatc gatggcctgg cgattggggc ttcctgcacc ttgtctctcc   960
ttcagggact cagtacttcc atagcaatcc tatgtgagga gtttccccac gagttaggag  1020
actttgtgat cctactcaat gcaggatga gcactcgaca agccttgcta ttcaacttcc  1080
tttctgcatg ttcctgctat gttgggctag cttttggcat tttggtgggc aacaatttcg  1140
ctccaaatat tatatttgca cttgctggag gcatgttcct ctatatttct ctggcagata  1200
tgtttccaga gatgaatgat atgctgagag aaaaggtaac tggaagaaaa accgatttca  1260
ccttcttcat gattcagaat gctggaatgt taactggatt cacagccatt ctactcatta  1320
ccttgtatgc aggagaaatc gaattggagt aatagaaaat ggaagatggt gttgttaata  1380
aaggcattta atagataaaa acatctccaa aaaggatttt gaagctgatc ctatttagtt  1440
aaaaagataa ttttgctttc aactgtaggt ccagaaaact aattattggc atcagtctgt  1500
gaaatagtcc attatttgtt gttaaaaatg cttcaaaagg ttttcagtgt cagtctgaga  1560
tgcctggtat ataggagcct ttgggaaata cctattttc agtattccat gcatattgga  1620
tatcaccatg aagcaagaga catgcattct ataatcatgt agacactcag actcagggga  1680
aaatacaagt tatatcctga aagcctttaa aactctatgg taggatcaaa gattcaaatg  1740
gtttcagaga ggttttattt caattaattt gttctagtgc tttcaagagc aagtacatca  1800
aaatgtagaa ggtaaaatgt atgcaacact aatataaatt attccaagtc tttaaggagc  1860
caaagaaaaa aaagatttct cacagctttt tgttctgttt tgtatttcaa ttaggaactt  1920
gcagtattat tttgaaaacc attctaaaat aataggagtt aggaaataaa taaagttttg  1980
ctagccctgc taagttcagg cttagaggct tatcgctaag tataaacttc accagattcc  2040
acgaaaagct ggatagcttt ttttctgact tatgttgtgg ttgcacccct cacaaatggc  2100
agaacagtat gtaaagctgg taacacctcg gtttcagtgc accatgtgtt tgctttgtga  2160
aggtgaagaa tatgttggtt tagagaaaga aattggatgt aattttatgc aatttacttt  2220
taaagacaaa cataactatt tagcagagaa tattttaata aatgcaaaac aacagctgga  2280
ctgctgtaca tcaaggacag attaactgga aaacatatgt tccttatgtg tgattgagag  2340
ccattcagaa aagacttcct ttgtgttcag cctatacttt tccatatggt ataccttgaa  2400
aaaaattagc acaccatggt tattttttcta cctttataa aagacagagc ctgtttactc  2460
atttagaaga tagagaaaat tggtctaaaa ttgaacatcc tagattcaca ctcccaagtc  2520
acttaaggtg atttgatggt gaggaaaatg attgacaaag cccaacaatg atctcaggaa  2580
ttacatttttc caacagacca aaaaatgttt tcatgtagca gcaatgcaga tttggtgaat  2640
atttaatata tattttagta tgtatttcac tttatgactg acaattaaaa aatattgttt  2700
ggccaaacag taaacaccct tttgaaacc                                     2729
```

<210> 3065
<211> 1446

1862

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1374)...(144)
<223> similar to gi5305335 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

        <400> 3065
aaccgaggta cataggacct cgcggaaccc cggtcgaccc cgcgtccgga gcgcctcgcg   60
gttcggaaga gcggcgaaat gctcttccgc tagaccagcc acttttggg aatgagggcg   120
cagtcggagc ttgaacatct ctccgagctg cggcgggaag cggggaagga tcgcagctca   180
atgcatgggt cggccgcgcg gacgcgtgcg agtgtgcgga ctcattggac gacggcggcg   240
gcggcgaaag cggatgaaga ccccggagcc aacttgtttc cggtgagggc gggacagtct   300
gagctgctcg tgaatattta taaaccggct cccccgcagg cgccacctgt cattatgctt   360
actaacgttc gggacgtctc ccgggctgct tgggcgagga gaggcagggg tgtgtgaccc   420
cggtggttac tgtgctcgcg tagagcacct agggcctgct gaagccctcc ctcgcccgcg   480
cctctcctta gtccttgaga tgagatggca agttacagcg gcttctccgg cctgctggag   540
attcgctacg ggccaggaca ccgcagctgc cttccccaat tcgctttctt tccgcagccg   600
ccgctgcccc gaccccggat ctgcatgtgg aagtacctgg acgtccattc catgcaccag   660
ctggagaaga ccaccaatgc tgagatgagg gaggtgctgg ctgagctgct ggagctaggg   720
tgtcctgagc agagcctgag ggacgccatc accctggacc tcttctgcca cgcgctcatt   780
ttctgccgcc agcagggctt ctcactggag cagacgtcag cggcttgtgc cctgctccag   840
gatcttcaca aggcttgtat tgcaaccccc ttgggcaacg tggaggagtg ctaccgctac   900
ttcaccagtg tccttttttg ccatggagtc aggcggcctc ctttcagcat cgacctcttc   960
aaagaggaac agctgctggc cttggaagac tacgtggtca acacttactt ccgccacttc   1020
aagctctata aatacgtctt cacacccag gtgcggctgg atctgtcttt gacttacatg   1080
gggctacagc cacccaaact gtggccagag agtgagacgg agaaagaaga aagcaaggag   1140
atggaggagc aggcagttac cccgcagaaa gaggaactag agacagtggc cccaccagag   1200
ccagagccaa gccacatcca cgtcctccga gcctacatca agacccaagt gaacaaagag   1260
ctggagcagc tccaggggct ggtggaggag cggctcaagg ccagcgagga aaggctcagc   1320
agcaagttga ctgcactaga gcggcccttc cagctacctc cgggtaaagg gtagagcatg   1380
atccagtgtc cccatacatt ttccccgaat tagagctctg ggccagaatg gcaccatccc   1440
tgcaaa   1446

<210> 3066
<211> 2190
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2191)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (57)...(753)
<223> similar to gi1504006 in the genepept database release 114,

1863

Run with FASTXY 3.3t00, default parameters

<400> 3066
attacgccaa gcttggcacg agggacccct ccaaactgtg tagacatagt ctaaaatgtt   60
tggagtgtaa tgaagtcttc caggacgaga catcactggc tacacatttc cagcaggctg   120
cagatacgag tggacaacaa atgaagaaac acccctgccg ccagtgtgac aagtctttca   180
gctcgtccca cagcctgtgc cggcacaacc ggatcaagca caaaggcatc aggaaagtgt   240
acgcctgctc gcactgccca gactccagac gtacctttac caaacgtttg atgctggaga   300
agcacgtcca gctgatgcat ggcatcaagg accctgacct gaaagaaatg acagatgcca   360
ccaatgagga ggaaacagaa ataaagaag acactaaggt ccccagtccc aagcggaagt   420
tggaagaacc agttctggag ttcaggcctc cccgaggagc aatcactcaa ccactgaaaa   480
agctgaaaat caatgttttt aaggttcaca agtgtgccgt gtgtggcttc accaccgaaa   540
acctgctgca attccacgaa cacatccctc agcacaaatc ggatggttct tcctaccagt   600
gccgggagtg tggcctctgc tacacgtctc acgtctctct gtccaggcac ctcttcatcg   660
tacacaagtt aaaggaacct cagccagtgt ccaagcaaaa tggggctggg aagataacc   720
aacaggagaa caaacccagc cacgagggtg gaatcccctg atgggcgccg tgtcagacag   780
aaagtgcaaa gtgttgcgca aaaactttg aaactgaagc tgccttaaat actcacatgc   840
ggacacacgg catggccttc atcaaatcca aaaggatgag ctcagcccga gaaatagcca   900
cagatgctcc catgaggaaa atccccgtcc cacattggaa taaaaaagac attttgtta   960
caaagtttgc cagtataata gagttaacag tactgtctag gctgttgcaa tatattctct 1020
ttcaatgtac cttccttcac ctcgtcgtat atatcctcga taagtattaa aacagtattt 1080
gagtttaaaa gagtttgtat atatttaaat gaataacttt ttatactctt tgttacatgt 1140
ttgtatcagt atttagtgga aaaccatttg agttgttttg ggttagaatt tttctttttg 1200
tactgtttct ttaaaacaga gttcttagta acaggggcag ttcctgaatt caaataaacc 1260
atttgtatg tttggatttt gaatgggtta actaattaca ggctaaaata atgccttttt 1320
tagtgttttt aatttttaga attcactaca taaattgtaa gtaattgtgg gtctcaaaaa 1380
cactaggaac ttttaagtgt cttagcactt cctcgatgtg cctgccctga gggagtgagt 1440
tcacatttga dacaactgca ctccagtgtg dacgtgcctt tgtcttcagg ccatgccgaa 1500
gggtgtttaa agcagtcttg caggtcgctc ctttcccagc cgtggataaa aactgaagct 1560
aggaatctaa taaggaatgc tgatttcctc agttccattt tgaggaatgg ggaaggctat 1620
tctaaagaaa aaaatgggat ttgtttttctc ggcagatctg caaggctggc tttaagagca 1680
caaggaggga aagtaacgaa agggctggac tactataaaa gttacaaata cgtagttaga 1740
ccaatagatt tatatagtca ggtttttgtc atgtaattta ttaactaact attacagaaa 1800
cacagctaag aatatcaagt atttctctgg ctcttgacag aaaaaaatca gttgacttaa 1860
cccttttgctg tcaaaagagt tggcgtttcc tgttctgggt gctactgcca aacgttatgg 1920
tacttagagt cgggatgcac aacttcaacc accgacttat caatgcagcc gcctgtgtat 1980
tgcaattggc cgttacctta agcactgagc caccgcggtt tagttcagcc atttcaagag 2040
tacatttaac gtcggcagtt ctgctttact aaaatgcagt agaggtactc ttctgtccct 2100
tccgtttata gttctctgag agagttatat tttttggttt tgtttgtgtt tcttttgaat 2160
tnatatctgt attatcctga acatgtttga   2190

<210> 3067
<211> 695
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(544)
<223> similar to gi63568 in the genepept database release 114,

1864

```
        <400> 3067
gaaaagaaca gtgcctcttt ccactgccag aaccccagga cctttttcag gcctcacaga      60
tgaagtttga agattttcaa aaagatctca gaaaactgaa gaaagacttg aaagcctgtg     120
aagttgaagc agggaaagta taccaggtct ccctcaaaaga gcatatgcag cctttcaagg    180
aaaacatgga acaatttatt attcaagcca aaattgacca agaggcagag gaaaattcac      240
tgacagagac tcataaatgc ttttttggaga ccacggcata tttcttcatg aaaccaaaac    300
ttggagagaa ggaggtgtcc ccaaatgctt tcttcagtat ctggcatgaa ttcagctctg     360
actttaaaga cttctggaag aaagagaaca aacttcttct acaagagaga gtaaaagaag     420
ccgaagaggt gtgtagacag aagaaaggaa aatcacttta taaaataaaa ccaagacatg      480
actctggaat taaagcaaag ataagcatga aaacttgaac aatgaaaagc agaatgaaaa     540
tgagtcattg caacgacttt cacaaaattc agctgacctg agagtgggag ggaaactacc     600
gtcattctgc tcatgtttct tcttgacctc ttgcataatc tttttgtttt ctagacagtt     660
cactaattgt tgaattttac tgtatattca tataa                                695
```

```
        <400> 3068
gaattccggg ggagagagag aaagagagga gagagaagaa acgggaggag gggataagga      60
aattaaaccc tttaagtcaa tgcatattgt ggtgacaccg gcacaggcgc cctcacggtg     120
gagtcggcca gggctgtgcg ttcccaaaat atgaccaggg gtgcttggat gtgtcggcag     180
tatgacgacg gcttaaaaat ctggttggca gcaccccgag agaacgagaa accgttcatc     240
gattccgaga gggctcagaa atggcgactg tctctggcat ctctcttgtt tttcacagtc     300
ctgctctctg atcacttgtg gttctgcgcc gaggccaagc tgacccgggc ccgggacaag     360
gagcaccagc agcagcagcg gcagcagcag cagcagcagc agcagcagag gcagcggcag      420
cagcagcagc agcagcggcg gcagcaggag ccctcctggc ccgcgctcct ggcgagcatg     480
ggggagtcct cgcccgccgc ccaggcacac agactcctct ccgcctcctc gtcccccacc     540
ctgcccccct ccccgggaga cggcggcggc ggcggcggca agggcaaccg aggcaaagac     600
gaccgggggca aggctctttt tctaggaaac tctgccaagc ccgtgtggcg cctggagact     660
tgttaccccc agggcgcgtc ctcgggccag tgcttcacgg tggagaatgc ggacgcggtg     720
tgcgccagga actggagtcg ggggcggcc ggggggggac gggcaggagg tgaggagcaa      780
gcatcccact ccgctctgga acttgtcgga tttttacctt tcgttttgta attcctacac     840
actttgggag ttgttctcgg ggttgtccag tcccaacact ttgaactgca gtctggatgt     900
ggtgctcaag gaaggcggcg agatgaccac ttgcaggcag tgcgtcgagg cttaccagga     960
ctatgaccac catgctcagg agaaatacga agagtttgaa agcgtgctcc acaaatattt    1020
acagtcggag gagtactcgg tgaaatcctg tcctgaagac tgtaagattg tctacaaagc    1080
ctggctctgt tcccagtatt ttgaagtcac acagtttaac tgcagaaaga caattccttg    1140
```

```
caagcaatac tgtttggagg ttcagacgag gtgtccattt atattgcccg acaatgatga    1200
agtcatctac ggaggcctct ccagtttcat ctgtacaggg ctttatgaaa cctttctaac    1260
caatgatgaa ccagaatgct gtgacgtcag gagagaagaa aaatcaaata acccatccaa    1320
agggaccgta gagaaaagtg gctcctgtca caggacatcg ctcacagtgt catcagcaac    1380
aagactgtgc aacagcagac tcaagctgtg tgttcttgta ctgattctct tacacacagt    1440
gctcacagcc tcggcagcac agaacacagc cggactgagc tttggaggca tcaacacgct    1500
ggaagaaaac tcaaccaatg aggagtaacg gaaggacgag tgtcaccaca gcagcagctg    1560
gcccgccgtg aaaaatggca actgctgtct catgtaacag aaactgggtg cttttaccct    1620
cgaattactt attgcaaggc ctttagggta aaatttaaac agatgggcct gaatccaaac    1680
aaggacacaa ccacagcttt ttattgacta aaaggctgga aagtgacttt aaatttctca    1740
caccatttta tacactgtgt tttaatgttt ggaggtttta tttgctttcg ttttggtttg    1800
ggtttatttg tttgtttatt ttttgcactt gttaatacag gatttatttt gggggatggt    1860
ttctcagagg taaactaagt cttttcactg tctctatctc tctatatatt tctagtcatt    1920
gtgtgtgttc atcagatagt tctgtcttta tgtcctgtca gcttctatta gaggaatgat    1980
tgctatgacc tcatggtata gcaaaaaaca acaacaaaaa aagaataaaa aataaaaaaa    2040
aaa                                                                   2043
```

```
    <400> 3069
cggacgcgtg ggggaagatt aagtctgtag cactgtttgt agcagcgtgt ccaaggcaag      60
aactgataac tctgagtgat gttcagaagt ttgcagagat aaatggttca gccctatgta     120
gctacaacct aaagccttct gaatacacta catctccaaa atcttctgtt ctctgcccca     180
aactaccagt tccagcgagt gcacctattc cattcttcca tcgctgtgct cctgtgaaca     240
tttcctgcta tgccaagttt gcagaggccc tgatcacctt tgtcagtgac aatagtgtct     300
tacacaggct gattagtgga gtaatgacca gcaaagaaat tatattggga ctttgcttgt     360
tatcactagt tctatccatg attttgatgg tgataatcag gtatatatca agagtacttg     420
tgtggatctt aacgattctg gtcatactcg gttcacttgg aggcacaggt gtactatggt     480
ggctgtatgc aaagcaaaga aggtctccca aagaaactgt tactcctgag cagcttcaga     540
tagctgaaga caatcttcgg gccctcctca tttatgccat ttcagctaca gtgttcacag     600
tgatcttatt cctgataatg ttggttatgc gcaaacgtgt tgctcttacc atcgccttgt     660
tccacgtagc tggcaaggtc ttcattcact tgccactgct agtcttccaa cccttctgga     720
ctttctttgc tcttgtcttg ttttgggtgt actggatcat gacacttctt tttcttggca     780
ctaccggcag tcctgttcag aatgagcaag gctttgtgga gttcaaaatt tctgggcctc     840
tgcagtacat gtggtggtac catgtggtgg gcctgatttg gatcagtgaa tttattctag     900
catgtcagca gatgacagtg gcaggagctg tggtaacata ctattttact agggataaaa     960
ggaatttgcc atttacacct attttggcat cagtaaatcg ccttattcgt taccacctag    1020
gtacggcggc aaaaggatct ttcattatca cattagtcaa aattccgcga atgatcctta    1080
tgtatattca cagtcagctc aaaggaaagg aaaatgcttg tgcaccgatg tgtgctgaaa    1140
tcttgcattt gttgcctttg gtgtcttgaa aagtgcctaa attaatttaa atcggaatgc    1200
catacacagc cacagctatc aacagcacca acttctgcac ctcagcaaag gatgcctttg    1260
```

1866

```
tcattctggt ggagaatgct ttgcgagtgg ctaccatcaa cacagtagga gattttatgt   1320
tattccttgg caaggtgctg atagtctgca gcacaggttt agctgggatt atgctgctca   1380
actaccagca ggactacaca gtatgggtgc tgcctctgat catcgtctgc ctctttgctt   1440
tcctagtcgc tcattgcttc ctgtctattt atgaaatggt agtggatgta ttattcttgt   1500
gttttgccat tgatacaaaa tacaatgatg ggagccctgg cagagaattc tatatggata   1560
aagtgctgat ggagtttgtg gaaaacagta ggaaagcaat gaaagaagct ggtaagggag   1620
gcgtcgctga tgccagagag ctaaagccga tggcttcggg agcaagttct gcttgaacct   1680
agccgacggt tatggaaacc cattgacatt ccaaaacaat atatacacat aactatgtat   1740
ttgtgtgtgt gggtgtgtgt atatatgtat atgtatgtgt gtatatatgt atatgtatat   1800
acacacacac acataaatca gccaaaatca gagaaaagga acagggattt aatacctttt   1860
ttatgcttat ttttgtcaaa catgtactcc tttcatacgg gtggctttta caaggcaact   1920
tccgtcattt aatgttttca actgtaattg tcttaatgga aatgttaaaa ttcatatctg   1980
attaacattt ttaa                                                     1994
```

<210> 3070
<211> 2076
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)...(1424)
<223> similar to gi1843386 in the genepept database release 114,.
     Run with FASTXY 3.3t00, default parameters

<400> 3070
```
ggaattcccc gctgccccga cgagtcggaa ctataccgag atccgggaga agctccgctc    60
gaggctgacc aggcggaaag aggagctgcc catgaagggg ggcaccctgg gcgggatccc   120
tggggagccc gccgtggacc accgagatgt ggatgagctg ctggaattca tcaacagcac   180
ggagcccaaa gtccccaaca gcgccagggc cgccaagcgg gcccggcaca agctgaaaaa   240
gaaggaaaag gagaaggccc agttggcagc agaagctcta aagcaggcaa atcgtgtttc   300
tggaagccgg gagccaaggc ctgccaggga gaggctcttg gagtggcccg accgggaact   360
ggatcgggtc aacagcttcc tgagcagccg tctgcaggag atcaaaaaca ctgtcaaaga   420
ctccatccgt gccagcttca gtgtgtgtga gctcagcatg gacagcaatg gcttctctaa   480
ggaggggggct gctgagcctg agcctcagag tctacccccc tcaaacctca gtggctcctc   540
agagcagcag cctgacatca accttgacct gtcccctttg actttgggct cccctcagaa   600
ccacacgtta caagctccag gcgagccagc cccaccatgg gcagaaatga gaggccccca   660
cccaccatgg acagaggtga ggggggcccc tcccggtatc gtccccgaga acgggctcgt   720
gaggagactc aacaccgtgc ccaacctatc ccgggtgatc tgggtcaaga cacccaagcc   780
gggctacccc agctccgagg agccaagctc aaaggaagtt cccagttgca agcaggagct   840
gcctgagcct gtgtcctcag gtgggaagcc acagaagggc aagaggcagg gcagtcaggc   900
caagaagagc gaggcaagcc cagccccccg gccccagcc agcctagagg ttcccagtgc   960
caagggccag gtcgctggcc ccaagcagcc aggcagggtc ctagagcttc ccaaagtagg  1020
cagctgtgct gaggctggag aggggagccg ggggagccgg ccaggaccag gttgggctgg  1080
cagtcccaaa actgagaagg agaagggcag ctcctggcga aactggccag gcgaggccaa  1140
ggcacggcct caggagcagg agtctgtgca gcccccaggc ccagcaaggc cacagagctt  1200
gccccagggc aagggccgca gccgccggag ccgcaacaag caggagaagc cagcctcctc  1260
cttggacgat gtgttcctgc ccaaggacat ggacggggtg gagatggatg agactgaccg  1320
agaggtggag tactttaaga ggttctgttt ggattctgca aagcagactc gtcagaaagt  1380
tgctgtgaac tggaccaact tcagcctcaa gaaaaccact cctagcacag ctcagtgagg  1440
```

1867
```

```
ccctgcccag gctgagctgc ttcagggcat cctgaggccc tgactgccag ctgaaggcgt   1500
ataatttttc cctccgtgtg ccccacctac ccgtccaaga ccctctgtgc tccccaccat   1560
cctggaccaa ccaaaagctg aacggatgcc acactgtgct ggggcccctt gacctcagca   1620
gagccgcttc ctggtgctac gcagcctcca cactcagagc ccgtggactg ggctggccta   1680
agggccaggg ctgatggtac tgctggccca acactgctct ctttgtgttt ggtttttttg   1740
ttttgtttt tattttgttt ttttccaatt ctttactttt gatactgtga agatctttcg   1800
tgccgaaaga taaagcaaca tttggacaca gagttggcat gttggtgatt tgtgggtctg   1860
ggcggggagg gagttgaggg tgtgctcaga agcatgggct ctcccttagt cactaaccct   1920
agcatgcacc atgcatcagc agtttggtgc tattgtccca ttttacaggt gaggaaacta   1980
aagccgatag gaaagtgact cagctcaact tagtctggct gattagcatt gagcgcagac   2040
tggtatgatt atggcatctg tgcccttttc tccttt                             2076
```

<210> 3071
<211> 1696
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1694)...(321)
<223> similar to gi19867 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3071
```
tgggggatggt gggtcctggg gaaaaacggg cttttggtgt ggaaatgaca tctttcctgt     60
ttccgacctc tgcctgcctc atgccaggtg agacctttca tgcctgtttc catgattgag    120
aacatgggag tacgcttctt tccacctacg ttcctggtgg attttcactg gagttgggct    180
gcactgtgga aaaggggttg ggcagctcct gtggcacagt gaggggggcat agaagcccaa    240
ggcagtcggt aagaaatcac caatttattg aatgaaaaac ccaacatcaa ctcagtccct    300
cccaccccca tctcctctct ctggcccagg agacgctcag gacagcaggg ctgagccctg    360
ggaagggctg gaggagagct tgggggaggt atggagaatg agaaaaacac tttcaaaatg    420
aagttctgtg caaaaacttc tgggaaggag tgagaggaca agagaaaagc tccaaagggg    480
ctgtggggcg cagatggccg ggctggggggg tgcagagggc tgggctgggg ccctgtgtcc    540
tcaaccactc ctgagaacac ggacggtcag gaatgagggg ctcagacccc gggttggtga    600
gagggaggtg acagggaggg aaggagcctg ctggagggaa acctggctgg gaggatgggt    660
cttgggccca ggctggggcc taaggagggg gaagaacaga gcagggaaag gcagaaaaac    720
tgacacggtg ggaaggaggg agatgaatgg gagatgaaac agaatgtctg aggggcccac    780
agacagcatg tatggtggtg ggggtctgcc tcccatctct ccaagtccag gcagagctgt    840
gctgggtgag gggctgggag gcagaggcag gagcatcatt aacaagggtg gaagccacga    900
agacagcgac cagtgcacag ggtgtgtcac atggtacaac caagagactt ggcgtgcaaa    960
gaaccaaaga aacactcagg acacacgga catctgcagg gaacctgggg gtggtgagga   1020
agtcgtgcac gggtggtggg gggagactgg gaggcccctc tgtcctagaa acgctgtgtc   1080
accatagcaa cagggtcctg gaggcagggg agctgcctcc tgccctgtg agctgtgaag   1140
tagggggtcct gtgggctcag ggtgcccct taccctccct tgggaagctc tggggcaggt   1200
ggagaacccc ataagagttg aaagtggcct tgggtcctgc tggaggcagc agagtgagtg   1260
gatctggcag ctgcatccta gaggacaccc tggtggctgg aggggctggg ggaggactag   1320
gctctcctgc tggggaccag gattccagct ttctcatttc cgagaaggaa actgatacca   1380
caaggaagag tttggaagtc gggtgaagga aggcctgggg gactcagtcc aggggactat   1440
gggcaccaga aggcaaaacc aacacgcctt gggcctggag caggagggag aaggggaaaa   1500
gcgggaagga ggaggggctg tgcaggggtg ggctggaggg gaggggaggg aaggcgtccc   1560
```
```
                              1868
```

```
tgtggcagtg tccttcggga cctgggcgag tgagaggcag accctggtgc cagggaaggg    1620
gtgctgggcc cgggcctgct ggcctccccc tgccgcaggc ggtgaggctg gtggcagtgc    1680
caggagggaa agtgcc                                                    1696
```

<210> 3072
<211> 1515
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1516)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (9)...(1134)
<223> similar to gi3135309 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3072
```
ctctcctcag cggctcgcct aagtccagtg cctcccaagc aggggctgca gcggggcagg      60
gagccccgc ccctgcccct gcctcccaag agcccttcc catagctgga ccaggtggga       120
cagggatttt gggaggagga tggggcctgt gttggtgagg gctggttggg agagagggac      180
acagagggga tgcctgtctc acctgccct gtcgctgtgt ccctggatcc ggccccagcg       240
acagcacctg ctccacggcc acttggctcc attcagagac caaacagctt cctcttccgt       300
tcctcctctc agagtggctc aggcccttcc tcaccagact ctgtcctgag acctcggcgg       360
tacccccagg ttccagatga gaaggactta atgactcagc tgcgccaggt ccttgagtcc       420
cggctgcagc ggcccctgcc tgaggacctg gccgaggctc tggccagtgg ggtcatcctg       480
tgccagctgg ccaaccagct acggccgcgc tccgtgccct tcatccatgt gccctcccct       540
gctgtgccaa aactcagtgc cctcaaggct cggaagaatg tggagagttt tctagaagcc       600
tgtcgaaaaa tgggggtgcc tgaggctgac ctgtgctcgc cctcggatct cctccagggc       660
actgcccggg ggctgcggac cgcgctggag gccgtgaagc gggtgggggg caaggcccta       720
ccgcccctct ggcccccctc tggtctgggc ggcttcgtcg tcttctacgt ggtcctcatg       780
ctgctgctct atgtcaccta cactcggctc ctgggttcct aggccccaaa atcggccctc       840
cctcacccct ttcccttcct ctctatttat aaggtccctg ctccacccga ccccacctgc       900
ggtgccttca gccccaacca aagacactag tgcaccccct tcacagacac tgacctcaga       960
ggccccactc tggtgccccc agaccctggg cccccagcct ctggcctccc tccagtagcc      1020
ccacgagtcc ccacctctca gtgctgacgg tgccttcatg tccccgccgg ccctgcccct      1080
gccctctgta ccccgtgagg ggtggcagga gctggagtct ccccccttcct cctgtgccct      1140
ccccttcccc ccccaacagc tgctatgggg gggctaaatt atctctattt tgtagagagg      1200
atctatattt gtaggggttc ggggcccagg ccgggtccct atctctgtgt ataaactgta      1260
cagaccgtgg ccgccctgcc tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgcg      1320
cccccacncn cacncacacg cgcacatntg nttcgcgtgt ggggggggtgt ggacatgttt      1380
ctgtgcccac cagcatctcc ctcctgagat gccgcccttt tttgctcccg gagcgtgcgc      1440
caacccccg ggtcaactcc tttttgttat cggtgatttt ttttttcggg cctaattggc      1500
ccccgccccc cgcct                                                      1515
```

<210> 3073
<211> 4664
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4665)...(580)
<223> similar to gi3043708 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3073
```
tttttttttt ttgtggttgt gttccaataa aaattttatt taacaaaata tgacagtggg    60
ggggccacag tttgcccaaa ctttgccttg gaggacatgc agaggcaccc tcagaattca   120
gtgaaaacct gctcccatat tgctaagact catgaagtat aatctctcac cttctttctc   180
tttcccctgc ccaggcccta agttagggtt cccatccata taacaaagac ttctggtcag   240
gtggcatttg ctatctctgg gattccctgc ccatgaaagc cacaaagaga tttcttcttt   300
tacacaccct gaagcatatt atggccccag caaggctaac taaatcaaac tgtggtttaa   360
aaacaaaaca aaccaaccac tgtgaaatat ttattttgt tttgtagtat taagcatgat   420
taaaccagtg cagaaaaata ccaagtacat tgggtgaacg atgagctagc tgttctagta   480
tttgctttttt gtaatccagt taagaccatc agcatataca acatcatcac taactcaaca   540
atgtagctgc agggtaacat gtggataccc tgtgtgctct actggcctcc aaaggcattc   600
aggggatcat caaagatgtt ggacaccttg tgttcaaatc ttggttcagg tgcggcctgt   660
gcagatcggc tttttggttt ggttgtctta gcctggatac cagaggagaa gatgtcatcc   720
atatcatcat caaatataga cttggcttcc actttctttt tggactttttc ctttggtttt   780
acagttaagt cagcaaagat atcaatgtta tcatcaaata aattagattc ccaatgtttt   840
ctccttctct ctggttttct gagagggttt aattgcttcc gtaggcaaaa tatatcatcc   900
ttgttaagcc tcaaaaatat cgttgtgttg ttaatatgac atccgtgctg actattggga   960
ttttgtctca ttcttcttga ctttctgatc tgtaaagggg gtcatcctca tcttccagga  1020
gaggaaaggg atttgttttc tttgctggtt ttggtttagc agactgaaag agatcatcat  1080
cactgctggc ctcgcctaga gcaggaaaca tggggctctt tgctttacca cccactggtg  1140
ggttggcagg attctctgct atctttgcct tgggttttgt tctctccaca gactgagatc  1200
cagtgcccgt ggaaaagatg tccccagaat caaaaaggtc agcctcccct ctggaatgac  1260
ccagagactt tgcaaggggg cttctgtcca ctccaggcac aggaccacct tcccaaggtg  1320
cagcggcagc tgccagggcc tcctcagtgc tgtcttctcc actggctgct ctgagctgtg  1380
gccgatggcc atttggggaa atggcgccat cagcccactg tgcaatgggt cctctgggga  1440,
cgctcatgtc ctcagtctcg ctggactcct gagcagccag ccgcctagct gcacgggtct  1500
gcggtctacg cttccctctc atcttgacac ggctcttgtt tgcactgtgt aaggtgtctg  1560
cctgagctgg aagatcaaaa ctcacaccgg cctccccact cccgggaagg acaggcacac  1620
tttccagacc gtggctcctt ctgtgttcag atgaaggaaa agccaattct ggcaaaacag  1680
gctttacttc agagatctgg gaagccgctg tgggcagcaa ggccgctggg ttgatcgcta  1740
aatttgcctg aggtgtttct ggcttccata tgccttttttc tttactacct tgaatggatt  1800
caggatgttt ctggtttttg aaagagtcaa cagagtggtc tttttttcact actctctttt  1860
tctcttgtac caaaggctgg gacttggcag agctgaaaag atcatcatct tcatcatccc  1920
caaacaggct cccaactctt ggctctaaca gcttggtttt tttggtgcca gcaaaaaggt  1980
caacatctgg gtcattgtcc ttttggagct tgtggctgaa aagcagctct tcatcctgga  2040
agacacctgt gctcttgggg tgggcatcag gaatcgcagc cctttcctac ttcttttctg  2100
tggagcctgg gataatggtt ttgaatcttc caattttatc ctcttcctca tcaaacaagc  2160
taagaacagt tttggttctt aggcttggtt cctttgtccc atggggatga tgaagaaaat  2220
aaatcagaat gcttgactgt ttcctgagca gatctagtca aaagtccttc cttttctgac  2280
tcagccacat cagttctccc aaatttttaat gactccttgg cactctcaac cttcttatcc  2340
acagacttca ctccaagttg tgcctccttc tcttcttcat cgctgaacag caaaggtggt  2400
```

                              1870

```
gcctcagaga cagtctcttt tttcttttgtt gcaggaggaa cagatgtggg aggagagcca    2460
aacagagagc ctccgctatc aacatcgtct tcaaagagga gtgacactct ctgggtcttc    2520
ttttggctgt ccttggcaat ggcaaaaaga tcatcttctt cgtcttcctc aaagagactg    2580
gtctttttca cagccttggc ctcctggctc tggagggtcc cagaatccct gggttctcct    2640
ttagacctgc tgtcagatgc taagtgggtc tgtgaagcag gaatattcca ctggtcctcc    2700
tcatcactgc tgaacaacag ggcagatgct ttcttttgg agagctcgga ggcttttgct     2760
ttctcttctc tctgagcttg tagacacaat gtctgcttct tagcagctgt accccaaaa     2820
agattatcct cttcatcttc atcatcaaac agggaaaccg acgtggggag cttgccaggc     2880
agcagagatg cacctttaa gttactcgcc ctttgagaag aaaacaaatc ctcagagtcc      2940
tcctcatctg aaaataagcc tttttgagtc tttgtttctg atgagggctt gagattttg      3000
ctggaagata aggtaacctt tttttctgct cttgctttat tttcatctgt ctgactcaca     3060
gtggcttctg gcgatgctac ggcttttct ttgaacagat ctccttcttc atcaccaaag      3120
atatcagcag tggattggac tttgcctgtt ttagaaggtt tgctgtgggg tgccgagaaa     3180
aagtcgtcat catcatcacc atcatcatca tcaaagaggc cagtgggagg gggaccatag     3240
gggctttcc ttggagtggg ctgctcaggc ttctgtggct ccttcagtga tggaacggag      3300
gcagcaccaa acacatccgt gtctcctaaa aatacagaaa cagctcctgc tgggattttc     3360
tttccaggtt tggatgatga agactcctcc ttaacagagg ctccagcttg ccgatcctgg     3420
ggggcttccg tgaagaggtc actctcctcg tcctcatcat caaagagccc cttgccccca     3480
ctgaacaggc cacctccaga gccaaatggc gagaagtcct cgtcggtcag cttggggggt     3540
gcgaataagt tatcctcttc atcgtctgaa ggagttctcc tttccttctt ctctttgagt     3600
gtcttccgag gttttgcttc tcctgagggt aaggttgtcg gctcctcgtc cactcgaccc     3660
atggcatccc ccttgatgcg ggcagccagc tcatctgcaa acgatgtagg tctgcttctt     3720
ttaggtctag tatttttcttc aatgtcctca atatcttcct cctccttctc agagtcagca    3780
aaaaggtcac agccatcatc atcctcttcc tcatcactca tttgtgtggt gtgctggttt     3840
tgttcattgt cactgtgatg ggcaaaatct tcatctgact cctcctcttc tttctcttcc     3900
tcagtgtcca caatactgcc acgatcactg cctacagagc cttcttcact ggacagctct     3960
ccaagaccta catcttcttg ttccatgaac agctttgacc caatgagata tggtaaagga     4020
cgatcaatgt atagatcctt tggttcaagg atcagttcca cccgcccatt agcatcatct     4080
tcctcggagt ctgagtttcc tgctttgata tcaagttgct caaaggcact gtccaatact     4140
tgtaagccat agttcacagc ctcctggact ttaggaatga gatctacttc tttctgctct     4200
cgtgtcttct cctgctctgt tttttctgcc tcagccttga gtactggctc ctccacttct     4260
tcatcatata cacgattctc aatgaactgg gtattagaga gcataaggaa gtcattgaag     4320
acattatgca ggcgacaatc tgtggctttg gtttcccgaa ttagtccgtc cacttgtttc     4380
ttgatttcat gggtcctaga gatagtttgc tgtgagaatt cctgtagaaa ctgtagtagg     4440
cccgcgtcgg ccgccagcga ccagctctgg ctgctcctgc ggatctcctc catcgaccac     4500
ggccgctccc acacgggctc cgacgctggc gccagctcct ggtcgggggt cgtccggttc     4560
atcatcctag ccgcccggct cggtgggctc cgaagctgcc agcacacgcc gaggactgca     4620
gagccccgga agcctagccc cagccaagct gcccggggcg tgac                     4664
```

```
tttttttttt ttgagatgga gtctcgctct gtcgcccagg ctggagtgca gtggtgcgat    60
ctcggctcac tgcaagctcc gcctcccggg ttcacgccat tctcctgcct cagcctccca   120
agtagctggg actacaggcg cccgccacca cgcccggcta attttttgta tttttagtag   180
agacggggtt tcactgtgtt agccaggatg gtctcgatct cctgacctcg tgatccgccc   240
gcctcggcct cccaaagtgc tgggattaca ggcgtgagcc accgcgcccg gctgcaaata   300
atctttcttt ttttcttttt ttctgagaca gagtctcgct ctgttgccca ggctggagtg   360
cagtggcggg atctcggctc acggcacgct ccgcctcccg ggttcacgcc attctcctgc   420
ctcagcttcc cgagtagctg ggactacagg gcccgccac cacgcccggc taattttttt    480
gtattttag tagagacggg gtttcaccgt tttagccggg atggtctcga tctcctgacc   540
tcgtgatccg cccgcctcgg cctcccaaag tgctgggatt acaggcgtga gccaccgcgc   600
ccggcctatt tttagtttta aacaaaaaag tttaagaagt aaaaaaaaaa catgtttttgt   660
tgtcgttttc tttgagaggg agtttagcat tgatgcccat gctggagtac aggggcatga   720
tctcagttta ctgcatcatc ctgcctccga gttcaagaga tttctctgcc tcagcctcct   780
gagtagctag gattacaggc tcctgccacc acaccccaca catttttgt atttttagta    840
gagaacggga attcgccatg ttggccaggc tggtcttgaa ctcctgatct caggtgatcc   900
gcccgcctcg gcctccctaa gtgttgggac tacaggcgtg agccaccatg cctggcccca   960
accagaacac ttctgagcgt ggaagaggat gctgttaatt actcaagacc aaaaggcata  1020
aaaggagaca tatgtccacc caagtgataa ggcagttggg gaaactacat ttcccagtat  1080
gccctgcccc ttgaaagtta aaaatcttaa ctggcacaga gcaccctggg acacctgtgg  1140
ttagcaccat ttaagaagta aaaggtatag ggttgggttc tgacgtgaag gctttcccct  1200
tccatgggac acttaaccag acacaggaca caacacctga ggtgaaattt caatgggtat  1260
taagtctggg gtagagcttc tctctcccca aatctagctt ccaaagatgt ggagctggtg  1320
gagctgtcca ttggtccact gccctgtttc tcctgggtgc tgcctctgcc tcctcatatc  1380
accagcgtcc ccactgccac tagtctgtag ggggattccg ggctaggtgc tcttcccact  1440
cgacttcaac caacttatat agctccatgg tggcctgggc atcttccaca gaggaatgtc  1500
cgctcttccc aacctggata tcccggttta gcagcttctt ggtgagatgc ttcagagaca  1560
tggtggcatt ctccgggcag tcagccttcc ggttgagggg ggggatatgg gaggtgtcac  1620
gggtgaggga cttggggtga aagtactgaa gggctttgaa gtcgttgtgg atggcatgcc  1680
ccaccactat cttccctgtg agtatcttca agatctctcc atccttgaaa tgctcactcc  1740
cacaagtttt ctttcttctg gaatccacct tcctcttcca caggtgattt ccatggtata  1800
ccctgtttgg actcatactg ccagtggctc cttaccttct tattgatctc caccccatga  1860
cattaatttg ccttcagtcc taaatgacac tcatgtttga gatgtccatg tatttagttc  1920
agttctggct tgctacatga agtcctttaa ctattaccat tatgttggcc ttagacacat  1980
ggctgggacc cgggctccag ggaggctaac aaaagcccaa aattacatgc aattagatgt  2040
gtatgggtac tagaggaaga gaatctgtgg ctttcatcaa attctcagag tctacaaacc  2100
gtaaaaaatt aagaatcaca tataaactaa agttgcagaa gcaaccttat tcacactagt  2160
tttggaacca agtaaaataa aaataacttc tcaatatttc aggaaactgt ttttttttt   2220
tgagatggag tctcgctctg tcgcccaggc tggagtgcag tggtgcgatc tcggctcact  2280
gcaagctccg cctcccaggt tcacgccatt ctcctgcctc agcctcccaa gtagctggga  2340
ctacaggcgc ctgccaccgc gcccggctaa ttttttgtat ttttagtaga cgggggtttt  2400
caccgtgtta gccaggatgg tttcgatctc ctgaccttgt gatccgcccg ccttggcctc  2460
ccaaagtgct gggattacag gcatgagcca ccacgcccag gaaattattg tagtttttagt  2520
agagacaaga tttcaccatg ttggccaggc tggtctcaaa ctcctgactt caggtgatcc  2580
gcctaccttg gcctccaaaa gtgctgggat tacaggcatg agctactgca cccggcctaa  2640
ccaggctgga gtgcagtggt gggatctcgg ctcactgcaa gctccgcctc ccgggttctc  2700
accattctcc tgcctcagcc tcccgagtag ctgggactac aggcgcccac caccacgccc  2760
ggctaatttt ttgtattttt tagtagagac ggggtttcac catgttagcc aggatggtct  2820
cgatctcctg acctcgtgat ccgcccgcct gggcctccca aagtgttggg attacaggcg  2880
tgagccaccg cgcccggcca gcagcttcat ttattagggg cttcggtgag ggtggggaaa  2940
ggcagcgcca gggtcagagg cgccgaaaga agagcttgga gccgtggtcc agcgtgcact  3000
cgccggggcc cggccgactg ggctgcagct ggcgcagggc gtccctgtcc tcagcgcaga  3060
ggcgtct                                                           3067
```

<210> 3075
<211> 857
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(323)
<223> similar to gi3170196 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


```
        <400> 3075
aaataccagc ttcgaaggac aggtggaaca aagttcctca aaaacttgga cactggccac      60
cccgtcttct tttgtaacga ttgtgcgtcc caaatcagga ctccttccac gtacatcagt     120
cacctagagt cacacttagg cttccggcta cgggacttat ccaaactgtc caccgaacag     180
attaacagtc agatagcaca aaccaagtca ccgtcagaaa aaatggtgac gtcctccccc     240
gaggaagacc tggggacttc ctatcagtgc aaactttgca atcggacctt tgccagcaag     300
cacgctgtta aacttcacct tagcaaaaca cacgggaaat ctccggaaga ccaccttctg     360
tatgtctctg agttagagaa gcagtagcat ttgcttttga tagaaaggac tgcagtttgc     420
tttgagggaa actgtggaag gcaccttcag gccccctctg acttgttgtt cttggcacat     480
gttcttattt taactgcaga gaatcactct gggctggact gttttgtata actgtacagt     540
gtttaataga ggtgcataat cagctgttgt tactggtaaa atatgaaggt taaaatgcag     600
tggtaagtgt ttggaacttt gtgtaaacgg gatttagttg tgagcatcct cccgatgctt     660
caagctgcat gcattaacag acagtttaat taagcattta taacggaatc aggcacacct     720
tttccacgag actcgagtgt gctggcattt ctcacccttt catctttagc cctctgagta     780
ctttgaagca cttttgcatt aatttggtta aaaaataaaa taaaataata ataatgtatg     840
aagctctgtt ttttaaa                                                    857
```


<210> 3076
<211> 1364
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1342)...(712)
<223> similar to gi3002527 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


```
        <400> 3076
ggaaaaacaa acgccctttg agaagacggg gactcgccag gatacccctc tctcccctca      60
tccagcctcc agcccaccca attcctcccc acctcctcca cctccccagg ccccacctac     120
ctcctccaac tcctccgggg aaacccaagc cctgccgctc atggaacaga agaactggaa     180
ccgtcgtttc tggaacagga ctatctgaga gcggttcttc ctggccctcg agttcatgga     240
acggtataac tggaaccgac gcttacggag caagggtatg cgagagcggt tcttcctggc     300
cctcgggttc gtggaacggt ataactggaa ccgacgctta cggagcaagg gtatgcgaga     360
```

```
gcggttcttc ctggccctcg ggttcatgga atggcctaac tggaaccaac gcttacggag    420
caagggtatg cgagagcggt tcttcccata caggaagtag aagatgtttt gtttggagtc    480
ctcgtcgtcc tcctccatgt cattggccag gtagctgagg acagaaatca ggttgctgct    540
caggggcacc accaggagag gcctccggct gaggtcagct tcccagagag gaaggtaagg    600
gaccgtccct agctcaggac tggcacccac cctgcagaga gccacgcctt cctcaggagg    660
gctctgctgg acagagacct gatcaagggc gtctcccact ccttcaggat ggagacaaaa    720
acccaactgg tggccgagag tggtggctta cgcctggaat cccagcacac tgggaggcca    780
aagcaggagg atcacttgag gccaggagtt tgagacgggc ctgggcaaca tagcaagacc    840
ctcgtctcta ttaaaaatgt aagaaatatg ccagacgcgg tggctcatgc ctgtaatccc    900
agcactttag aaggctgaag caggtggatc gcttgagacc aggagttgga gaccagcctg    960
gtcaacacgg agaaacccca tctctactaa aaatacaaaa atgagcctgg tgcggtggca   1020
cacccgttag gcctagctac tcaggaggct gaagcacaag aattgtgtga acccaggagg   1080
cggaggttgc agtgagttga gattgggcca ctccattcca gcctgagagg cagaacaaga   1140
ctctgtctca ataaacaaac aaacaaacaa acaaactgtc caggtgtggt ggcacagccc   1200
tgtagtcgga gctaataaag aagctgaggt gggaggatcg cttgagccca ggatatggag   1260
gctgcggtga gctatgatct caccactggc actccagctt gggggacagg gcaagtctgt   1320
ctcaaaaaaa taaagaaat tgaatacatt gaaaaaaaaa aaaa                      1364
```

<210> 3077
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (585)...(360)
<223> similar to gi3002527 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

```
<400> 3077
tggctcatgc ctgtgatcct agcactttgg gaggctgagg cgggcggatc acgaggtcag     60
gagatcgaga ccatcctggc taacacggtg aaacccgtct ctactaaaaa atacaaaaag    120
ttagctgggc gtggtggcag gccctgtagt cccagctact cgggaagctg aggcaggaga    180
gtggtgtgaa cccgggaggc ggagcttgca gtgagccgag atggcgccac tgcactccag    240
cctgggcgac agagcgagat tccgtctcaa acaagaaaaa aagaaaatgt tctaggccgg    300
gtacagtggc tcacgcctgt aatcccagca ctttgggagg ccgaggcggg cggatcacga    360
ggtcaggaga tcgagaccat cctggctaac acggtgaaac cccgtctcta ctaaaaatac    420
aaaaaattag ccgggcgtgg tggcgggcgc ctgtagtccc agctactcgg gaggctgagg    480
caggagaatg gcgtgaaccc gggaggcaga gcttgcagtg agccgagatc gcgccactgc    540
actccagcct gggcaacaga gcaagactcc gtctcaaaaa aaaaa                     585
```

<210> 3078
<211> 643
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(644)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (7)...(532)
<223> similar to gi804808 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3078
```
cgagattatt atgtaatggt aaaaggatca attccacaga aaaatataaa aattataaat      60
atatacgcac cccacatgag actacattaa tatgtaaagc aaataatgac agttctgacg     120
acagaaattg acagcactag taggagactt caatacccct cttacaataa tagaatatcc     180
aggcagaaaa tgaataaaga aacagctgat ttgaacaagc acacacggaa cattctgtag     240
gatagatcat atgttagttc acaaaacgag tttaaacaaa cctaagaaga tagaaatcat     300
tccacgtatt ttttctaacc acagtggaat aaaactagaa atcagtaaca gcaagaaaac     360
cataaaattt gtggaaattt aaacacagtc ttgaataatc attgagtcaa gaaggaaatc     420
aaaagggaat cttaacagta tcttcagaca aaaaggaaaa catagcatac tacaacctat     480
gggatgaagc aaaggcagta ctaagagaga agtttctaga gataaacaat actacattnn     540
nnnnnnnnnn nnnnggattt cattttcct tcgggaacc agtaaaaaaa caccacccta     600
agcctagtgt ttgcttattg aaaaaaatat taggaattag ggg                      643
```

<210> 3079
<211> 995
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (298)...(811)
<223> similar to gi530878 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3079
```
cccacgcgta cggtgcgggg caccccatt gacagctgct cctacctgtg ctcacacaca      60
ggcaacaggt ccaagttcag catggcggat gaagacgcac ggcagaaccc ctacccagtg     120
aaggccatgg aggtggtcaa cagcggctct gaggtctggt acagcaatgg gccgggcctc     180
cttgtcatcg actgtgcctc cctggagatc tgcaggcggc tggagcccta catggccccc     240
tccatggtta cgtcagtcgt gtgcagctct gagggcagag gggaggaggt cgtctggtgc     300
ctggatgaca aggccaactc cttggtgatg taccactcca ccacctacca gctgtgtgcc     360
cggtacttct gcggggtccc cagcccctc agggacatgt ttcccgtgcg gcccttggac     420
acggaacccc cggcagccag ccacacggcc aacccaaagg tgcctgaggg ggactccatc     480
gcggacgtga gcatcatgta cagtgaggag ctgggcacgc agatcctgat ccaccaggaa     540
tcactcactg actactgctc catgtcctcc tactcctcat ccccacccccg ccaggctgcc     600
aggtcccct caagcctccc cagctcccca gcaaggtctt ccagtgtgcc tttctccact     660
```

1875

```
gactgcgagg actcagacat gctacatacg cccggtgctg cctccgacag gtctgagcat     720
gacctgaccc ccatggacgg ggagaccttc agccagcacc tgcaggccgg gaagatcctc     780
gccgtcagag acctcatttg ggtccccagg cgcggtggag atgttatcgt cattggcctg     840
gagaaggatt ctggcgccca gcggggccga gtcattgccg ccttaaaagc ccgagagctg     900
actccgcatg gggtgctggt ggatgctgcc cgggaggcaa aggacacttg tgtgtgcaac     960
ctttgaaaaa gaaaacacag aggggtgcct tgccg                                995
```

```
<210> 3080
<211> 2717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2284)...(999)
<223> similar to gi5420387 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
<400> 3080
atagaaaact gatactacgg acataagaat tttaaaaatt tcttttgcca aagctggcta      60
agggaatatt tttattcttc tgagggcagt taaggcttct gataagaaaa gagagtctga     120
acagagcaca cacatctgga gctccaggag tggggatgc agcatcagat tccatcttga     180
atttctgcta aaatactttg tactcataat ggatctcaac aaagatctgt atttcatctg     240
tggctccatc ttccctctgg gtcaagtaga tgttaagctg gaccttggca cgcctcttaa     300
catgaagaga tctagctaga cagacagact cccccattta tggaacaaga attcaattta     360
ttctctattt ataaaacatt tttttaaagt gccttgggta taaaaatcta aatgtctgcg     420
gtgtgatcag tcaggagcac gtaactatca ctcttcgcat cctttggtca ctgggagatc     480
ctttgggggc tgggaggtcc ttctgtccca ggctaaagga aaagcttcac aagggtaaga     540
gccacagaac cctcggcaag aaaggccggt cagggagaat gaatggtaca gagaggaaag     600
gaaggaaagg gggtggaaca gaggtagaag gcaaggaagg gatgccgcac tggagaccga     660
tggggacact ctaattgtgc aagagggagg atcttccttc ttgaatgctg aacacagcta     720
gtctgaacct tccttggaaa gtccagctgt ttgcccatgc atagggccaa ctctccctgc     780
aaagcagcaa atgtggcttc tatcaggaag gaaaagtatc catcagtgtg acaagaggtc     840
accttcgaac ttgcatgaac tccttgcgca gccacaaaga gtcctggtag aagtgaggat     900
cgcctagtct tacggctgtc cgtttataga agtagcagta caacactgct gctagtctct     960
ggaatacaaa cagcatttga agtccatctg tccatatgaa gctgttggag tttttccagc    1020
gtaagttcat gacccagaca tgaagggaga tgctgagggc aaagtacaca gctgtcagga    1080
tgatggtccc tttgaactta tggaatagga ggttgaccag gccagcctgg aagacgaagg    1140
tgttgaagaa catgaggaaa atgatgatga tgttgaagag gactgcaata tcctggatga    1200
tgaagagcac aagctggatg acaggagtct tttggagcag ttctgagaag gaattgacaa    1260
agaggtcata ggacagcagc aggaactgca gagagagcac caggctgtag ttactggtct    1320
ggagcatctt ccttctgttt tctcgggccc ccaagggcac atcccacagt tcccagaaaa    1380
ccgctcctgg ctgtctccct accactgagg gagaggcttc tagttccttt gaatgagagc    1440
tgtttccctt gctctaaggc aagcacctcc aaactccaac gtcggttgtc atgcggacat    1500
cgtcccggct tccggaagcc ggctttaaat tccggaagta aatggaggag gcgggccccg    1560
tctgcgccgt gcggcctgct agtccccggc tttctcttcc cgctctatgg ccagtctggc    1620
cgccatgttg gagctttcgc tgttcggggc ccggcctgct ccgggccctc ccagcgtcgc    1680
cgctagctga cttagggctc ccgcccacac tgcgcacggc cttgctgagg gccggctcgt    1740
agtgggaggc ttcgcgttca cctgaacatt tccgcctcct ctggatgggg gatgagaggc    1800
ggggctgatg catcgcagca gtcctggacc ctgacttcgg acttggagaa gaaacgccga    1860
```

1876

```
ggaggaacgg gagttagggg gttagcagct tggcgcgctg ggagccggcc acccctggtc    1920
tccggacttc acttcccagg aggcctcgcg cgcgactgga agtgctgcga gcctataaga    1980
aggcgaggcg gcacccgccg ctctgctctg gggcggcatt gccagccggc tgtaggcatt    2040
cagggcagtg tcttctgcat ctcctaggaa cctcgggagc ggcagctccg cgcctggta     2100
gcgagaggcg ggttccggag atcccggcct cacttcgtcc cactgtggtt aggggtgagt    2160
cctgcaaatg ttaagtgatt tgctcaaggt gcccatttcg caggaattgg agcccaggcc    2220
agttctctga gcctatcatt agggctaaag gagtgcgtga tcagaatggt gtctggacgg    2280
ttctacttgt cctgcctgct gctggggtcc ctgggctcta tgtgcatcct cttcactatc    2340
tactggatgc agtactggcg tggtggcttt gcctggaatg gcagcatcta catgttcaac    2400
tggcacccag tgcttatggt tgctggcatg gtggtattct atggaggtgc gtcactggtg    2460
taccgcctgc cccagtcgtg ggtggggccc aaactgccct ggaaactcct ccatgcaggc    2520
tgcacctgat gccttcgtcc tcacattgcc agatgttggc agaagggcta atattgaccg    2580
tcttgactgg ctggagcctt caaagccact gggatgtcct ccaggcacct gggtcccatg    2640
accagctccc cgtctccata ggggtaggca tttcactggt ttatgaagct cgagtttcat    2700
taaatatgtt aagaatc                                                   2717
```

<210> 3081
<211> 2694
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)...(1187)
<223> similar to gi3513512 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3081
```
gctggacgcg gaggcgctgg gcgcacggcg cggagccggc cggagctcga ggccggcggc     60
ggcgggagag cgacccgggc ggcctcgtag cggggccccg gatccccgag tggcggccgg    120
agcctcgaaa agagattctc agcgctgatt ttgagatgat gggcttggga aacgggcgtc    180
gcagcatgaa gtcgccgccc ctcgtgctgg ccgccctggt ggcctgcatc atcgtcttgg    240
gcttcaacta ctggattgcg agctcccgga gcgtggacct ccagacacgg atcatggagc    300
tggaaggcag ggtccgcagg gcggctgcag agagaggcgc cgtggagctg aagaagaacg    360
agttccaggg agagctggag aagcagcggg agcagcttga caaaatccag tccagccaca    420
acttccagct ggagagcgtc aacaagctgt accaggacga aaaggcggtt ttggtgaata    480
acatcaccac aggtgagagg ctcatccgag tgctgcaaga ccagttaaag accctgcaga    540
ggaattacgg caggctgcag caggatgtcc tccagtttca gaagaaccag accaacctgg    600
agaggaagtt ctcctacgac ctgagccagt gcatcaatca gatgaaggag gtgaaggaac    660
agtgtgagga gcgaatagaa gaggtcacca aaaagggga tgaagctgta gcttccagag    720
acctgagtga aaacaacgac cagagacagc agctccaagc cctcagtgag cctcagccca    780
ggctgcaggc agcaggcctg ccacacacag aggtgccaca agggaaggga aacgtgcttg    840
gtaacagcaa gtcccagaca ccagccccca gttccgaagt ggtttggat tcaaagagac    900
aagttgagaa agaggaaacc aatgagatcc aggtggtgaa tgaggagcct cagagggaca    960
ggctgccgca ggagccaggc cgggagcagg tggtggaaga cagacctgta ggtggaagag   1020
gcttcggggg agccggagaa ctgggccaga ccccacaggt gcaggctgcc ctgtcagtga   1080
gccaggaaaa tccagagatg gagggccctg agcgagacca gcttgtcatc cccgacggac   1140
aggaggagga gcaggaagct gccggggaag ggagaaacca gcagaaactg agaggagaag   1200
atgactacaa catggatgaa aatgaagcag aatctgagac agacaagcaa gcagccctgg   1260
cagggaatga cagaaacata gatgttttta atgttgaaga tcagaaaaga gacaccataa   1320
```

1877

```
atttacttga tcagcgtgaa aagcggaatc atacactctg aattgaactg gaatcacata  1380
tttcacaaca gggccgaaga gatgactata aaatgttcat gagggactga atactgaaaa  1440
ctgtgaaatg tactaaataa aatgtacatc tgaagatgat tattgtgaaa ttttagtatg  1500
cactttgtgt aggaaaaaat ggaatggtct tttaaacagc ttttgggggg tactttggaa  1560
gtgtctaata aggtgtcaca atttttggta gtaggtattt cgtgagaagt tcaacaccaa  1620
aactggaaca tagttctcct tcaagtgttg gcgacagcgg ggcttcctga ttctggaata  1680
taactttgtg taaattaaca gccacctata gaagagtcca tctgctgtga aggagagaca  1740
gagaactctg ggttccgtcg tcctgtccac gtgctgtacc aagtgctggt gccagcctgt  1800
tacctgttct cactgaaaag tctggctaat gctcttgtgt agtcacttct gattctgaca  1860
atcaatcaat caatggccta gagcactgac tgttaacaca aacgtcacga gcaaagtagc  1920
aacagcttta agtctaaata caaagctgtt ctgtgtgaga attttttaaa aggctacttg  1980
tataataacc cttgtcattt ttaatgtaca aaacgctatt aagtggctta gaatttgaac  2040
atttgtggtc tttatttact ttgcttcgtg tgtgggcaaa gcaacatctt ccctaaatat  2100
atattaccaa gaaaagcaag aagcagatta ggtttttgac aaaacaaaca ggccaaaagg  2160
gggctgacct ggagcagagc atggtgagag gcaaggcatg agagggcaag tttgttgtgg  2220
acagatctgt gcctacttta ttactggagt aaaagaaaac aaagttcatt gatgtcgaag  2280
gatatataca gtgttagaaa ttaggactgt ttagaaaaac aggaatacaa tggttgtttt  2340
tatcatagtg tacacattta gcttgtggta aatgactcac aaaactgatt ttaaaatcaa  2400
gttaatgtga attttgaaaa ttactactta atcctaattc acaataacaa tggcattaag  2460
gtttgacttg agttggttct tagtattatt tatggtaaat aggctcttac cacttgcaaa  2520
taactggcca catcattaat gactgacttc ccagtaaggc tctctaaggg gtaagtagga  2580
ggatccacag gatttgagat gctaaggccc cagagatcgt ttgatccaac cctcttattt  2640
tcagagggga aaatggggcc tagaagttac agagcatcta gctggtgcgc tggc         2694
```



```
<210> 3082
<211> 671
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(672)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (156)...(615)
<223> similar to gi546454 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters




<400> 3082
tttcgtcggc cattttggtg gctggggcat ccttgacaaa cttggcagca actttggctg    60
cctgggcagc ggaggatgtg gcagcggcgt atgctgcggc ggcagcggcg gcgatggcag   120
cggtggtttt cagccggtga agggcagact ggggagcctt aggctgtgct ccttgggggg   180
ccccatcctt gccaactcta tccttggggt ccccatcttt gccacctcta tctttgggga   240
catcatcctt gtgagctcta tccttggggt ccacatcctt gccacctcta tctttgggga   300
catcatcctt gtgagctcta tccttggggt ccacatcctt gccacctcta tctttgggga   360
ccccatcctt gcgagttcta tccttggggg ccccatcctt gcgggccctc tcccgaaggc   420
cccttaggct ggggacatca ttttcctccc cctttacttg acagctgcg agctggaggg   480
cttctccctg gcgagactga tatggctgga gtggtcgagg ccacaatgag ccaaactcag   540
```

```
tggctggtgg tggggccctg gagggttggg gctgagttgg ccgcaggaca cctaagtccc      600
agaattccac cgcntggtct aatgatctac gaacctaatg gtctacaatn gggggggcgg      660
gggggggcgg g                                                           671
```

<210> 3083
<211> 508
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (55)...(137)
<223> similar to gi509397 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 3083
tttcgtgccg ccatctgctg gcggctgcgc tcactgcacg ccttcgtctc cctagaccgg       60
taccgggagt accagtggat cggactcaac gacaggacca tcgaaggcga cttcttgtgg      120
tcggatggcg tccccctgtg tcctgtgggc cgccaccgga gctgcccctg gctcaagtgt      180
tcggccgccc acggctgcgc tatgaggtgg acactgtgct tcgctaccgg tgccgggaag      240
gactggccca gcgcaatctg ccgctgatcc gatgccaaga gaacggtcgt tgggaggccc      300
cccagatctc ctgtgtgccc agaagacctg tgagtgccag gaagaggcag gtgggagtgg      360
gagacagtag ccaacagtag ccttggactc cacttaaagt cctgcctgtc actggccatg      420
tgaccttgga gccatcactg cccctctctg aggcaaaggg gaagaggtgg gctggaggct      480
ctggggttcc ttcagtgctg atgtctga                                        508
```

<210> 3084
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (57)...(216)
<223> similar to gi4063011 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 3084
ctgtgccgac gccaggagac cccaagctgc atcgccgagt ggaagcaact agaactccag       60
ggctgtgaaa gccacaggtg ggggctgagc gaggcgtggc ctcaggagcg gaggacccccc     120
ccactctccc tcgagcgccg cagtccaccg tagcgggtgg agcccgcctt ggtgcgcagt      180
tggaaaacct cggagccccg ctggatctcc tggctgccac ccgcaccccc cgccagccta      240
cggtgcgccc gcgggcccag cttctctctg cgctgctccc cgttaaattc cctggggaga      300
```

```
cggaaaaaaa ggcaaaggaa gtcggttctc caggggccag aagtgttgag cctaattagt    360
cttcagactt ctcaatgagg aatcgcttat cagtttctta tctgggagag ttgaggatgg    420
agggacagaa ggcacccagg atttgcacgg ggggggattc agggagagag ggtgatgagg    480
gacggggtgg gccttccagt cttggcccag tccccatctt gcacacattg ttggcttcct    540
cttagagccg ttcgcccccc tggggagggg agacccatag tgacctctcc tgacacccgc    600
cgaccctgac cagtgttgcc gggttcttca aaggccacgc tctgactgct ggtctgtgtc    660
acctgcaccc cccagcccca ccgtagagat gccttcttcg gtgacggcgc tgggtcaggc    720
caggtcctct ggccccggga tggccccgag cgcctgctgc tgctcccctg cggccctgca    780
gaggaggctg cccatcctgg cgtggctgcc cagctactcc                          820
```

```
        <400> 3085
cccagctggc aggcggctgt gtccctgtag aagggatgct ccatccagcc tgctactccg     60
gagctcgcgc ccacagcgag ggccctcgca gctctatctg gggactctgg taccagttag    120
cacttcttgt tcttgtcatg gggccagcca ggccctctct gaggtggcac ctaccgcctc    180
ccaggcctgg tgggagggtg ggccctgccg tcacaggcag acctggctag gatacttcca    240
gcctgggatt cgcctctgaa gaggcagcag ctgctagtgg aggtttctta gacaaggacg    300
caggatgggg caggagaggg gaggggcatg ggtctgggac aaatgatggc agtgccagca    360
ctgcatctcc cattgtgcag ggagtagccc gccctggaag tagggttggg ggtgaagcgt    420
gttggaagat gtgggagagg tgtgattcca gtaatgagtc ttataacttg ggagcagcca    480
cgcgtcaccc aggcagaagg acctggtggg agagctgccc gggggagtga ggacaggtgc    540
agactgggtg gaaggtgggt ggggagaaca accccagctg gacagggggt ttcccctaga    600
gccacagtcc cacctgcccc atgaagacct gggagcaact aaatctgggc tctgcgggcg    660
aggggtgggg ctggggcccc tatgcctcct gtcactagac ctgcctgtcc tgcc           714
```

```
        <400> 3086
caggaggagg aaaaggaaac aaccaggcca gtcatggtgt ctcgtgccta cgaggaggag        60
gaggaagcgg aggaggggaa aaaaaaggag gaggaaaaag aaacggagca caaggagttg       120
gaggaggagg aggtggagga ggaggaggga aaagaaatgg agcaggagga ggagggaaaa       180
gaaatggaag aggaggagca ggaggaaaat gaaatggagg aggaggagga ggaaaaagaa       240
atggaggagg aaaaataaac aggaggagga ataagaaacg gaggaggaag aggaggagga       300
ggacaaagaa acagccaggg ccgacgtgga ggctcacccc tgaagtccag ctgg            354




        <210> 3087
        <211> 644
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(645)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (3)...(438)
        <223> similar to gi56522 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




        <400> 3087
atcaatggaa caaaatagac aatctagaaa tagagccaca caaacatgaa caacttgttt        60
ttgacaaagg tgcaaaggca attcattaga gaaaggatag tcctttcaac aaataatagt       120
ggaataattg gactgtatgc taaaaatatg aatccagagc taaagcttat acctttaaca       180
aaaattaact caaaatgatt aatacatcta aatacaaaat gaaaagctgt aaaactttaa       240
aaaacaaaaa tacattcatg atctggattt aggcaacaag ttcttaagac accaaagcat       300
agtacatttt taagaattgg taaattggat tttatcaaaa ttaaaaactt ttgctctaaa       360
aatacacaat taagagaata aaaaagacaa gcaacagtct aggagaaaat atttccaaat       420
cacatatcag acaaataacn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn        480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn        540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnagtgcctt tcggacgcgt        600
gagtcgactt ggcaaaaccg gaccgggtcg ttccgaagga agta                       644




        <210> 3088
        <211> 2306
        <212> DNA
        <213> Homo sapiens

        <220>
```

<400> 3088
```
gcggtggaat tctgagggtc ttcacttcgg tgaactgaac ccttgaagcg gctgtgggca     60
gggcagcagg gctatggcca ccccccaggt tcgcctttgc cgacgcaaga gcccaactgc    120
cctcctgggt gcgtccccac gtcagggtgt atgacaactt tggccatgtc atccgagacg    180
tggcccagtt cttccgtgtt gccgagcgaa ctttctgcag atgccagcgc cggccccccg    240
ggctacagca cccagtgtgc gtggagaaga tgctgtcagc gaggccaagt cgcctggccc    300
cttcttctcc accaggaaag ctaagagtct ggacctgcat gtccccagcc tgaagcagag    360
gtcctcaggg tcaccagctg ccggggaccc cgagagtagc ctgtgtgtgg agtatgagca    420
ggagccagtt cctgcccggc agaggcccag ggggctgctg gccgccctgg agcacagcga    480
acagcgggcg gggagccccg gcgaggagca ggcccacagc tgctccaccc tgtccctcct    540
gtctgagaag aggccggcag aagaaccgcg aggagggagg aagaagatcc ggctggtcag    600
ccaccggag gagcccgtgg ctggtgcaca gacggacagg gccaagctct tcatggtggc     660
cgtgaagcag gagttgagcc aagccaactt tgccaccttc acccaggccc tgcaggacta    720
caagggttcc gatgacttcg ccgccctggc cgcctgtctc ggccccctct ttgctgagga    780
cccaagaag cacaacctgc tccaaggctt ctaccagttt gtgcggcccc accataagca     840
gcagtttgag gaggtctgta tccagctgac aggacgaggc tgtggctatc ggcctgagca    900
cagcattccc cgaaggcagc gggcacagcc ggtcctggac cccactggga actttccaga    960
tgctctcgac cagctttgtg gctctacatc tcttcatcag gaagaacggc gccggatccc   1020
aagctgaccg tgtccacggc tgcagcccag cagctggacc cccaagagca cctgaaccag   1080
ggcaggcccc acctgtcgcc caggccaccc ccaacaggag accctggcag ccacccacag   1140
tgggggtctg gagtgcccag agcagggaag cagggccagc acgccgtgag cgcctacctg   1200
gctgatgccc gcagggccct ggggtccgcg ggctgtagcc aactcttggc agcgctgaca   1260
gcctataagc aagacgacga cctcgacaag gtgctggctg tgttggccgc cctgaccact   1320
gcaaagccag aggacttccc cctgctgcac aggttcagca tgtttgtgcg tccacaccac   1380
aagcagcgct tctcacagac gtgcacagac ctgaccggcc ggccctaccc gggcatggag   1440
ccaccgggac cccaggagga gaggcttgcc gtgcctcctg tgcttaccca cagggctccc   1500
caaccaggcc cctcacggtc cgagaagacc gggaagaccc agagcaagat ctcgtccttc   1560
cttagacaga ggccagcagg gactgtgggg gcgggcggtg aggatgcagg tcccagccag   1620
tcctcaggac ctccccacgg gcctgcagca tctgagtggg gtgagcctca tgggagagac   1680
atcgctgggc agcaggccac gggagctccg ggcgggcccc tctcagcagg ctgtgtgtgc   1740
cagggctgtg gggcagagga cgtggtgccc ttccagtgcc ctgcctgtga cttccagcgc   1800
tgccaagcct gctggcaacg gcaccttcag gcctctagga tgtgcccagc ctgccacacc   1860
gcctccagga agcagagcgt catgcaggtc ttctggccag agccccagtg agtgcccacg   1920
gaggccccca gcacacccaa cgtggcttga tcacctgcct gtccagctct ggtgggccaa   1980
gaacccaccc aacagaatag gccagcccat gccagccggc ttggcccgct gcaggcctca   2040
ggcaggcggg gcccatggtt ggtccctgcg gtgggaccgg atctgggcct gcctctgaga   2100
agccctgagc taccttgggg tctggggtgg gtttctggga aagtgcttcc ccagaacttc   2160
cctggctcct ggcctgtgag tggtgccaca ggggcacccc agctgagccc ctcaccggga   2220
aggaggagac ccccgtgggc acgtgtccac ttttaatcag gggacagggc tctctaataa   2280
agctgctggc agtgccaaaa aaaaaa                                         2306
```

<220>
<221> misc_feature
<222> (1393)...(1099)
<223> similar to gi3002527 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3089
aaattagaag cagtagatct catggagcca cgtttaatat gtgtagccac agtaactcga   60
attattcatc gtctcttgag gatacatttt gatggatggg aagaagagta tgatcagtgg   120
gtagactgtg agtcacctga cctctatcct gtagggtggt gtcagttaac tggatatcaa   180
ctacagcctc cagcatcaca gtgtaagttg gtatacagaa aaggtgtcct tttgtaaaaa   240
tcagcaattc tccagaggac tatctcacat aagtcatctt atgagctcac aggacaagaa   300
tatacctatg tctgattggt tgccaggtaa gacattaaga ctcaacaaca atatcacaga   360
atcagaccat gtgtcccatg gcaatgtgaa tccaatagtc aattacataa tgactataga   420
aacacaacag tcaccaaatt aaactagact tactatttta gtgagttaaa aattacatac   480
taaaagtttta ttggtaggta ataaatgctt ttgagtaaat agtggaaaat gtctcatgtt   540
gaggctatgg ttttgtagga acaagtaccc ttattttcag agcatcatgt acttaagtat   600
aatggtcttg gtaaagatag ttcatataag ttgtatctag acaactgtat cgtctaaatt   660
gtaaacaatt atctagtacc aattttcct tttattttt cagcatcaag agaaaaccaa   720
tcagcttcat caaaacagaa gaaaaaggct aagtcccagc aatacaaagg acataagaaa   780
agtgggtcac cacgtggtgt tcacatacat tttctaattg ttaactaatt ggagtcacag   840
tattcttgga cagaaatga tatatcttgt gagaactgat gattgtgcat tatgtattat   900
gcttaaaggt gcagtatgcc ataaaaggca aacccttgca ataatgagaa acactgatat   960
tttactaaca ggagaaatta ttaccacagt atttaaagta tacgtggtaa agaatagagt   1020
ctgtgaatga ttcttgaaat aatatgtaaa acctactgaa agttaatcct ttttaaaaac   1080
tttatttaaa aagaaaaatt agcagccagg tgcagtggct cacgcctgta atcccagcac   1140
tttaggaggc cgaggctggc agatcacaag gtcaggagat cgagaccatc ctggctaaca   1200
cggtgaaacc ctgtctccac caaaaataca aaaaatctgc cgggcgtggt ggcacacgcc   1260
tgaagtccca gctactcagg aggctgaggc aagagaatca cttgaaccca ggaggcagag   1320
gttgcagtga gccaagatca cgccactaca ttccagctgg gcaacacagc aagactctgt   1380
ctcaaaaaaa aaa   1393

<210> 3090
<211> 904
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (235)...(752)
<223> similar to gi2980817 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3090
tgtcctgaca aggctgtaaa gttgaagtgt aacacaaagg ttaggtgccc aactcctgat   60
tttgaggacc ttcctgagag ataccagaac cacctctcag aacacaagtc tccaaaactc   120

1883

```
ttaacagtgt gtaaaccatt tggtcttcat gcatctccac atgcatctat taaaagagaa    180
aaaattttgg cagacatcga agcagatgaa gaaaatttaa aagaaacacg ttggccttat    240
ttgtctccaa ggcgtaagtc accagtaaga tgtgcaggtg taaaccctgt gccttgtaac    300
tgcaaccctc ccgtgcccac ggtatcttcc agaggacgag aacaagccgt aagaaagagc    360
gaaaaggaaa ggatgagaga ataccaacga gaactagaag aaagagaaga aaaattaaaa    420
aagaggccac tgctatttga aagagttgct cagaaaaatg caagaatggc agcagaaaag    480
cattattcta ataccctaaa agcactagga atatctgatg agtttgtttc aaagaaaggc    540
caaagtggaa aagtacttga gtacttcaac aatcaagaga cgaaaagtgt cactgaagac    600
aaagaaagct ttaatgaaga agaaaaaata gaagaaagag agaatgggga agaaaattat    660
tttattgata ccaacagcca ggattcttac aaggaaaaag atgaagccaa tgaggaaagt    720
gaagaagaga atctgttga agaatcacac tgaatcatca aggtctcctc tctatgccct    780
tgctgttgtt tgcagcgtca gggtgtcagc agccgcattt gtgtttagaa catctgtggg    840
gacgcttctg atatgtgcag ggctgttgat caaagtcatc tgtagcctga aaagccttga    900
tcca                                                                 904
```

```
<210> 3091
<211> 6305
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(2809)
<223> similar to gi2224617 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters
```

```
<400> 3091
catcagcggg cggggtgtc gccgaacagg ctgctccgca gagcccgccg cgaccccgcg    60
ccgccccgcc ccgcggcctg cctgccagag gagccgaggg ggccgcccct cgcccaacct    120
gcccgacatg gggaaccccg ggcccaggcg tgctggtcac catgacaaca gagacaggcc    180
ccgactctga ggtgaagaaa gctcaggagg aggccccgca gcaacccgag gctgctgccg    240
ctgtgaccac ccctgtgacc cctgcaggcc acggccaccc agaggccaac tccaatgaga    300
agcatccatc ccagcaggac acgcggcctg ctgaacagag cctagacatg gaggagaagg    360
actacagtga ggccgatggc ctttcggaga ggaccacgcc cagcaaggcc cagaaatcgc    420
cccagaagat tgccaagaaa tacaagagtg ccatctgccg ggtcactctg cttgatgcct    480
cggagtatga gtgtgaggtg agaaacatg gccgggggcca ggtgctgttt gacctggtct    540
gtgaacacct caacctccta gagaaggact acttcggcct gaccttctgt gatgctgaca    600
gccagaagaa ctggctggac ccctccaagg agatcaagaa gcagatccgg agtagcccct    660
ggaattttgc cttcacagtc aagttctacc cgcctgatcc tgcccagctg acagaagaca    720
tcacaagata ctacctgtgc ctgcagctgc gggcagacat catcacgggc cggctgccat    780
gctcctttgt cacgcatgcc ctactgggct cctacgctgt gcaggctgag ctgggtgact    840
atgatgctga ggagcatgtg ggcaactatg tcagcgagct ccgcttcgcc cctaaccaga    900
cccgggagct ggaggagagg atcatggagc tgcataagac atataggggg atgaccccgg    960
gagaagcaga aatccacttc ttagagaatg ccaagaagct ttccatgtac ggagtagacc    1020
tgcaccatgc caaggactct gagggcatcg acatcatgtt aggcgtttgt gccaatggcc    1080
tgctcatcta ccgggaccgg ctgagaatca accgctttgc ctggcccaag atcctcaaga    1140
tctcctacaa gaggagtaac ttctatatca agatccggcc tggggagtat gagcaatttg    1200
agagcacaat tggctttaag ctcccaaacc accggtcagc caagagactg tggaaggtct    1260
gcatcgagca tcatacattc ttccggctgg tgtcccctga gcccccaccc aagggcttcc    1320
tggtgatggg ctccaagttc cggtacagtg ggaggaccca ggcacagact cgccaggcca    1380
```

1884

```
gcgccctcat tgaccggcct gcacccttct ttgagcgttc ttccagcaaa cggtacacca   1440
tgtcccgcag ccttgatgga gcagagttct cccgcccagc ctcggtcagc gagaaccatg   1500
atgcagggcc tgacggtgac aagcgggatg aggatggcga gtctggggggg caacggtcag   1560
aggctgagga gggagaggtc aggactccaa ccaagatcaa ggagctaaag ccggagcagg   1620
aaaccacgcc gagacacaag caggagttct tagacaagcc agaagatgtc ttgctgaagc   1680
accaggccag catcaatgag ctcaaaagga ccctgaagga gcccaacagc aaactcatcc   1740
accgggatcg agactgggaa cgggagcgca ggctgccctc ctcccccgcc tcccccctccc   1800
ccaagggcac ccctgagaaa gccaatgaga gagcagggct gagggagggc tccgaggaga   1860
aagtcaaacc accacgtccc cgggccccag agagtgacac aggcgatgag gaccaggacc   1920
aggagaggga cacggtgttc ctgaaggaca accacctggc cattgagcgc aagtgctcca   1980
gcatcacggt cagctctacg tctagcctgg aggctgaggt ggacttcacg gtcattggtg   2040
actaccatgg cagcgccttc gaagacttct cccgcagcct gcctgagctc accgggaca   2100
aaagcgactc ggacactgag ggcctgctgt tctcccggga tctcaacaag ggggccccca   2160
gccaggatga tgagtctggg ggcattgagg acagcccgga tcgaggggcc tgctccaccc   2220
cggatatgcc ccagtttgag cccgtgaaaa cagaaaccat gactgtcagc agtctggcca   2280
tttaggaaag aagattgagc cggaggccgt actgcagacc agagtctccg ctatggataa   2340
cacccagcag gttgatggga gtgcctcagt ggggagggag ttcatagcaa ccactccctc   2400
catcaccacg gagaccatat cgaccaccat ggagaacagt ctcaagtccg ggaaggggggc   2460
agctgccatg atcccaggcc cacagacggt ggccacggaa atccgttctc tttctccgat   2520
catcgggaaa gatgtcctca ccagcaccta cggcgccact gcggaaaccc tctcaacctc   2580
caccaccacc catgtcacca aaactgtgaa aggagggttt tctgagacaa ggatcgagaa   2640
gcgaatcatc attactgggg atgaagatgt cgatcaagac caggccctgg ctttggccat   2700
caaggaggcc aaactgcagc atcctgatat gctggtaacc aaagctgtcg tatacagaga   2760
aacagaccca tccccagagg agagggacaa gaagccacag gaatcctgac ctctgtgaag   2820
agatcctggc atttctggtc caacccaagc cagagaacca ttaagaaggg gccttcattc   2880
tggattctcc gacgcaacac tgacgtccca gctgcgacgt actgtcactg atgagagact   2940
gggaagggaa aagcatatat atatagatat atagagatat agatatatat acaggaaaca   3000
ccgcatcctt gcactgctgc tggggctggc agagcagttg gctgacagca caaccgaca   3060
tctgaacacc tacatttcct ttgcagacaa attgaagaac tggtgggatt tttttcaaga   3120
aaaaaaatta tataataact ataatccctt gctcacccct ttcccccgcc aaattaaaaa   3180
cgccaagcca gaccccgaat gattgtagaa gtcccttccg gccctggttt tggcacgtta   3240
cagttaacaa gacgagcaat tccatttgtt cttctccaag catctctaag gcccacttga   3300
atgcaaagga aaacacttgc acagcaaagc aagagaagtc acagcagcaa gacacggcac   3360
aggtcaacca tttttccgag aaaaaaagaa aattccccac ttgggaagga aagaggagga   3420
acactggatt cttactttct ggatcttgaa cactgggctg caaaaaccta ccttccctct   3480
ctcccgcctt cccctcaccc tcaactctca atgtccttgc tgtcattttc tgtcctcggc   3540
tccctcctcc cccttcccccc ttcccccacc ccacacccctt caccctctgt gtccgtggtc   3600
cttcctgagg gccactgcag atgactctcc tttgaaatga gaaaagaaa agaaagcaag   3660
aacagaaaac gaagccacag gaagggaagt aggacattgt atggtttatg gtttctcatt   3720
atgaaggtgc agcttgtagg aggtttgtac ggatgtgctt tgaagttatg tatattacat   3780
ataacaggaa aaaatattaa aataaacagt gctggtaagt atgaagctga cattctaaaa   3840
ttataattat ctgactgtga ttgatgtatc ctgaggttcc tagatctcac tgaactggcc   3900
cagctaagga gacctggact ctgggtgtgg gttggctcac agtaggggct gacgggttca   3960
gtgtagtaat actgtgtgtg gtgtttgtaa ttggttgatt ggtggggagg ggtgggggggc   4020
cctaatggag aggtgtgggt ttggcaagaa agaagcaaca cagatgtcgt ccccaaaatg   4080
ccagttcaag acaccttctc cctgccccccc tggtagtaac agtcagggcc tggtctgtgc   4140
tcaggtactg ggtcccagtc tgggactctg ctgctgaagt tgccacagta gaggtccctg   4200
gcttagtcct tatctcccta cggggcttgc cttggttttc agtcttctct ctctttctct   4260
cttttttttt ttttgccac attctgccct tccctgaccc cattgtaata accaactcca   4320
tatccaaagg gaggtggtgc tctcagccat tgtagaagat ggtggcttta acctgactgt   4380
ctaaaaattc ccagctaagc cttttcctct actctcttcc ttgttctgaa tcatttcttc   4440
ttctcaggcc aaagtagcca tggtaaggag gcttcatggg gcagaccctg aaagatcaaa   4500
actgcatttg caaagccctc ccctgtccca ggacaaagct gagactgacg ggtgatgttg   4560
ctcataggct ccagctctgc ataagacctt ggcttggaga cctccctctc agtcaacagc   4620
tgaactctga gcttgtgccc agaaattacc ccaagaccac aggaacccctt caagaagctc   4680
ccatcacaag cttggcattg ctctctgcca cacgtgggct tcctcaggct tgtctgccac   4740
aagctacttc tctgagctca gaaagtgccc cttgatgagg gaaaatgtcc cactgcactg   4800
```

```
cgaatttctc agttccattt tacctcccag tcctccttct aaaccagtta ataaattcat     4860
tccacaagta tttactgatt acctgcttgt gccagggact attctcaggc tgaagaaggt     4920
gggaggggag ggcggaacct gaggagccac ctgagccagc tttatatttc aaccatggct     4980
ggcccatctg agagcatctc cccactctcg ccaacctatc ggggcatagc ccaggggatg     5040
cccccaggcg gcccaggtta gatgcgtccc tttggcttgt cagtgatgac atacacctta     5100
gctgcttagc tggtgctggc ctgagggcag ggcaggaaaa tcagaatagc atttgctttc     5160
tctggggcaa aaatgggaaa gttcagcggg gcagcagaat cagtggcatt ccccctggtg     5220
caggccggtg ggtccactcc aactcccctt gagtgtagca gcacactttc catacaccag     5280
gttcttttta caatcctggt ggaaaagcca cagaaccttc ttcctgccct tcttgagagt     5340
tcccccctctt tctgggtcaa gagctggagt ggtggctcca tcctctctgg gccacttcgg     5400
tctaggaact catctttgca ggaaccagga gtcctgagca cactgaacac acctcagagg     5460
gaggatcctt gttgtggatt ttgcacctgg ctttggggca ggggtgaagt gaccaggctt     5520
agcttgtgga gtttatgggc caccagggtt tggggaaatc accatcccgc ggatgctgtg     5580
acctcccttc tacgagatg caggcagtgc cacgagggag gaggggacct gcaaagctag     5640
aatctagggc actgtttcct ccccatcctt ctctttgtag agaatagaga cgtttgtctt     5700
gtctgtcttc aacctacttt tccttttctc ttttttgttt ctcatcctct ctgtgccacc     5760
tctccaccca ggaggccatg tagcatagtg gaaaaagtcc ctgagggcgg ttaggagttc     5820
tgggtgacca tcctggctca gctcctaact caccatgtga catcaggcta tccccattcc     5880
ccctcttggg cctcagtttc ccgacttgca aaataagcag aaagaaccag atgctctcca     5940
gggtcttttt ctactttgct atctcatggg tcttcatttt ctcttatttt gttttctctg     6000
gatcttttcc atctgagggt acaggaagta ccaggacctg tttcagtttt tgaatcctgc     6060
aagcacattc caagactggc ctgaaactgc atgagcaaca tcactcgaaa taatttttttt    6120
tttcaaaagc accttaacaa ccaattgcga tgctgtcctg ttccttttta ctcacaccct     6180
tctctccttt ctcgtcccca tgctccccca cctcagtgct ccgtgctgta tgcgtgtgct     6240
ctctgttctt gtatactcaa tataagtgaa ataaatgtgt ttgatgctga accataaaaa     6300
aaaaa                                                                 6305
```

<210> 3092
<211> 1595
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1596)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (928)...(1545)
<223> similar to gi5917666 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3092
```
tttttttttt ttctttaaaa ccatttactt acaaacttta attcagcaaa ggtccgtgtg      60
gggagactgg ggtggggtcg ggggaatagt ccccttggag tggatgtgga cccccagagt     120
caagggaggg aagctggtgg cccagttggc tgggggcaag gcccagggtc acctcaggtc     180
gacaggtcct gctggtgggc gggcccagag tttatcttca tggagtgctg gtttctggca     240
ctgggctgga aggaggccag ctccagggat ctggccgggg gtgggcaggc agaattcaag     300
aattcatctt caacaagcga gtgacagcag aggctccggg agatgggcac aatgtccgac     360
```

```
tcccacagac agacagcagg ggactggcag agaaagccca tctctgcacg gaggcccggg      420
taggagggg  tggtgggggcc ggttcgccaa gatgaaggct ttccccttct actgtcccca     480
gggtggagat cctgggtagg gtggcccaat ccctaggcca gagctgtttg gtccatagtc      540
aagctcccag agcttggcat ctgtggctct ggccagcagg gcctggggcc cagcttttaa      600
ggcatcagaa ggggaggggg ctgcggcagg gaccccgggc cccacggctg gggtataggc      660
cagatgggca ggcaggggca ggagacagcc atgcctgcag caaatgtggg aaaaacagct      720
gtttcaaacc gcaaggtgtg gaatggtggc ccggacaggc cgggccttga aggaatcaga      780
gctggggggct gtccggggtg gtttgaaaaa taaaacttag aaaaggaaac agaagtcagt     840
tgtcaaagtt aaaaaaaaaa ggagacagtc tctgtatctt cacgggaggt cagggaaacc      900
tccaaggcac tcgaaaggcc aaaattacag gagcaatgag gcaggagggc tccggagaga      960
cgggcacagc ggaggaggag atgggggggag ggagggagag caggccgggg cccctctctc    1020
ttaaggctgc agggtttcag cgtggggagc aagccagaga cataatgagg cctccagact    1080
cccccacacc ccttgggctc ctggggctcc ggctgattgg tcagtaaagt ctttcagaga    1140
tttttctatt accgaaagag agaaaatggt ttaaaaaaaa cacaaaacaa aacatcagaa    1200
aacccaaaag cgatttggtg caggcccttg agttatctct ggtgccagcc acttagaaaa    1260
tcctcttccg cttcaggtag gagtccgcgt agtggccgcc gaggccctgg gagtgctggc    1320
ccacatagct gccttctggg ctgggctcgg gcgagggcag caggtgggca aagctgcgtt    1380
tctgcccgcc cagtggggtc ttcagcaggt ggctgtgacc attaggcccg ggggtgaggc    1440
ccaggagccc ttccccggac cccagcgggg aagagccgat tgccttactg aggtggctct    1500
gcttgaggcc agcctgcagg ccgctggtaa gtattcctgn nnnncgtnnt tcgagactgc    1560
agtncgggcc ccctgggtta ttcctnncgg gcccc                              1595
```

```
<400> 3093
ttttgagacc atttgtcgat ccctagtcca tgtggtggaa ttcgttttga ctgagcagaa       60
tggtgccatt gcagatcaac acgcacttta aataatcaaa accctatct ttcccctggg       120
aaggaggaag ccgaggaagg ctgtgtttct gactcacacg ggggagtcgg gggagtcgta      180
aacaaccctg aagagaacag ccaggcctgg tgagtcactc ctgggagtgg ctcctcccca      240
ccctgccacg cagcggcaac tgcgggctgg gcctaccccc tggtggccac gctccctccg      300
cacccggcct ctctctgtgg catgggggcg gccatgcccc ttggtggaga tgaatgggag      360
tggagctggg ctggctgggc aggcaggggc ttgcctcttg ctgactaagg cagccctgga      420
ggggcccgac catggggcag gaacccagtt gccatcctca gagcgaggat cattggccgg      480
gctcggggat cagggcctct gtggtcccgg cacgcctggc ccgtgagact gtactctgca      540
cgactcctcc aggtggccag ggtcaccgga actggctcgc tctcctctgc cagttgccgg      600
aggtctgggc accaggccaa ttctcacctt cccgccaggg ttaaacatta gtgggaggtt      660
atcagcgtgg gccaggggag ggagaggggg gaattcaact ctgtctcctc tgctggagcc      720
accagttccc gcaagcccag acaatgccgg tggaggaatt tgtggctggc tggatctctg      780
gtgagacatt tttcttcctt ctgtcacatc acacccaatg gtaggtcact tcctcgggaa      840
gatgggtgac atgggaggag cagagaccaa agtctgagtt ccggcctggc gggaggatca      900
cttgagccca ggagtttgag accagtctgg gcaacatagg gaggcccctg tctctacaaa      960
```

1887

```
aaaatcaaaa taattagctg ggcatggtgg ctcacacctg tagtcccagc tacttaggag      1020
gattgcttga gctcaggagt tcaaggctgc agtgagctat gactgcacca ctgcactcca      1080
gcctgggtga caaaatgagc ccctgcccca aaaaaaaaaa aaa                        1123
```


```
<210> 3094
<211> 1369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1371)...(351)
<223> similar to gi4206386 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```


```
<400> 3094
tttttttttt ttctgatcag actcttttta ttgttttgtt ttttataaac aagtctcagg      60
tggaaaaaga aagaaaggga ggagctagct ctctgccttc tcagccaatt gaaatcgtgg     120
aaaccaatgg gcttcagcta gccccactca tcactgctgg gggggaaaag acatccctac     180
tcccccttccc cgtggcactc atgatattct caatgcccca acaagggtca tcttggttcc     240
tctcggcgtt tctgtcctgg cctttggctc tggctccggc tctgactccg actccggctc     300
cggccagggc cccgggagcc cctagagctg ctggagcccc tggaagagtt gctgccggcc     360
gtggaacatg tgctggtgcc ctggccccgg gacaggaagc ttggtctgct gtatgggagc     420
caggcctctt catctgggtg gagcacccgc tgggctgcca ggggcacggc ctggaccgct     480
ttcctctccc cactgcgctc ccgctccagg gaggacatgc tgcctgctgc cctcagctct     540
agggcccagc tcgcctcttc ctctggcggt ggcaagggtg gtggggggcaa gtccccagga    600
ctgttctccc tcctgtaggg aagagccttg ggtttcttcc ggaatcgagc acggggtcct     660
tgaagtgggg gagtcatctc cccattcccc tgccaggttc tgcctggggc actgctggct     720
gtgctagggg caggactggg gctgaggtgg ggtgaggctg cagggccagc acccaagcca     780
gcaggcctcg cttcacggat gcccagcatg ggctggata cactgagagg ggaactcggc     840
ccaagggca ccctcctggg catctgatgg agatggggca tgtcagttgg gggctgggga     900
gggtcaggag gtgagggtgt aagagtggct gtggactgct gtccatagga aggtgtggga     960
gaggggtttt ccttcggga tggggtgacc aggcaccctc cactggagct gggctccgtc      1020
aggtgacttc tctcaggcat tggcgggcac cactcctctg gctttgagct gccctccagc     1080
tcctcctccg gcccttctag gcagctcagt tcacaagaag gaggaggtgg gggcagggct     1140
tctggccagt tcagagaggg catctgcaca ggtttcccca gaagcttcac tttgcctccc     1200
ttggctccac tgtcccctg gctccactct ggaggagcgt tctggctcca gggacccaga     1260
tctcctgagg gatgttgggg gaagccccca tggaaggtct gcagctctct accccgctgg     1320
gtcaatggtg ctatagacag gaccctcccc aggggggggc gggcccctg                 1369
```


```
<210> 3095
<211> 860
<212> DNA
<213> Homo sapiens

<220>
```

<221> misc_feature
<222> (719)...(848)
<223> similar to gi4115936 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3095
caagatcccg acaggcttaa tcgctccctt aaggaaaaag ttattccttg catccgcggt   60
aaacttgggc cccccaagg atcctttaaa cgggccgccc cttttttttt ttttcaattt   120
cttcaacagg tcatgttcaa tttcttcaaa gttttaacat aaaaataatg agagccagga   180
gtggggccgg ggcctggggg gacgaaggtg gtatgtgaaa caaggttggc acacaggcct   240
caccctcctc tgcctcagat tcccaagtgg gcaggtgggg gtgaatgggg ctccgggtag   300
cacctcagct cctctcagct cccctcagcc tgttctcctt ccagacccag agagctgaga   360
agagtagctg tgaggctcag ggcagaggct ctctgccttt caggaacagc ccttaaccct   420
gctccccttg cttgggcctc aggaaggtgc cgcgagctct cctgccgtcc ctgggccgcc   480
ctggctctgc tgtgtccaga tggtcaggct actgccagct ggggccttgc tgctctgaag   540
tcccaggaag ccaggggtct gcaggagcct cttgcctcca ggctggttgg ggaagacgtc   600
ctccaggaag tagtagatat ggcccaccgc aatccccagc aggtccacga ggatggagtt   660
gcccagcagc agcgagaagc ccatgagcgc ccaaggcagg aacggtgcct ggaacttccg   720
gaacacaagg tgcgggttga agtagagttg aaaggggctg aggagctcca gctgcaccgc   780
ggcggtggtg aggacacagg ctgcggtgta agcccgcgtc accgccggca cctgcaggaa   840
ctcggccgct agtccctgcc   860

<210> 3096
<211> 871
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (23)...(769)
<223> similar to gi643658 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3096
ggatggtcgg ctgggtgggc ctggacggct ggatgggcct gggctgggtg ggcctgggca   60
gctgggtggg cctgggcagc tgggtgggcc tgagctaggg cagcagggcc tggctcacgc   120
cgctgcctca gatcccgcag gcggagctgc caggggccac cctgcaggtg cagcttttca   180
acttcaagcg cttctcgggg catgagcccc tgggtgagct ccgtctggca ctgggcaccg   240
tggatctgca gcatgttctg gagcactggt acctgctggg cccgccggct gccactcagc   300
ccgagcaggt cggggagctg tgcttctctc tccggtacgt gcccagctca ggccggctga   360
ccgtggtggt gctggaggct cgaggcctgc gtccaggact tgcagagccc tacgtgaagg   420
tccagctcat gctgaaccag aggaagtgga agaagagaaa gacagccacc aaaaagggca   480
tggcggcccc ctacttcaat gaggccttca ccttcctggt gcccttcagc caggtccaga   540
atgtggacct ggtgctggct gtctgggacc gcagcctgcc gctccgaact gagcccgtag   600
gcaaggtgca cctgggtgcc cgggcctcgg ggcagcccct gcagcactgg gcagacatgc   660
tggcccacgc ccggcggccc attgcccagc ggcaccccct gcggccagcc agggaggtgg   720
accgcatgct ggccctgcag ccccgccttc gcctgcgcct gcccttgccc cactcctgaa   780

```
tgcaccacat gcctctgtct ccccgctgag cccaggcact tgcccaggcc gccctgcagg      840
accactgcaa taaacgcatt ctcctgccaa a                                     871
```

```
<210> 3097
<211> 885
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (802)...(867)
<223> similar to gi1334643 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
        <400> 3097
agggagctgc ccctcacgcc agagcagctg gaggctgtgt ttgaaagtct ggaccaggct      60
cacactggct ttctcaccgc cagggagttc tgcctgggcc tggggatgtt tgtggggggtg    120
gcgtcagccc agggagcgaa cccctgcagg actcccgagg agacctttga gtcgggcggg     180
ctcgacgtgc agggcacggc gggctctctg gatgaggagg aggaagagga ggagcgattc     240
cacactgtgc tggagcagct gggggtggcc ccggtcctgg gcgagcagcg ggctgtgagg     300
acgctctggg ccaggctgca gcgcgagcgc cccgagctgc tgggctcttt cgaggatgtt     360
ctgatacgcg cgtcggcctg cctggaggag gcggcccggg agcgcgacgg cctggagcag     420
gcgctgcgga ggcgcgagag cgagcacgag agggaggtgc gcgctctgta cgaggagacg     480
gagcagcttc gggagcagag ccggcgcccg ccgagtcaga acttcgcccg cggggagcgg     540
agaagccgtc tggagctgga gctgcagatc cgcgagcagg acctggaacg cgcgggcctg     600
cggcagcggg agttagagca gcagctgcac gcccaggctg cggagcacct ggaggcacag     660
gcccagaact cccagctgtg gcgggcgcac gaggcgctgc gaacgcagct ggaggggggcg     720
caggagcaga tccgcaggct ggagagcgaa gcacgaggcc gccaggagca aacccaacga     780
gacgtggtcg ccgtctccag gaacatgcag aaagagaaag tcagcctgct acggcaactg     840
gagctgctca gggagctgaa tacacggctg cgggatgaca gggac                     885
```

```
<210> 3098
<211> 3658
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3659)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3659)...(391)
<223> similar to gi532056 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
tttttttttt tttaagatag aaatctatgc actttaatga ttgccagaat tgcccagcat    60
agcttcagta aaatagagaa ttgtctagaa aatacaatct ccaaaatgtg tgcaagtact   120
gcaaaccgga cagaccgggg cagggcaagg cccttgaaac caagtcctcc ttgagcacct   180
ttcccaggtt agaaacccct cttcagcctg tgcttcgcac gtttccttca gcgtgccgcc   240
cattcagact gcgccaactt acgtccccag tgcccacgcc tgngtggatc aagtgtccaa   300
cgggaaagta tgagttaggg caagcgcttt tttttaagc tgtaaacgct tcacatgact   360
gggccccgta aggaaattgt ggggagctta ggatgagcct gggagctttt tcagggactt   420
ggatgaggac tctgtacaca aatgtgtact ggcagagagt ctgcaccagc atcattctct   480
gttgccctca gcatgtccag cactctcggg atgtccagca cctcattgtg ttccaggcag   540
gcgatcatga tctccgacaa aatcaccacg ccagtccttc ctaccccagc actgcagtgg   600
accaacaacg gagggttggg gctttgggga tcacttgtgc tatttgtatg gcgtcgaaca   660
gactggatct cttcaagata tgataaaaat cccttgaggt cttctggaca gccatgttca   720
ggccagtctg tgtattggag gtgccagacg gtcctctctt gcccggtaag gaggtgcttc   780
atcttcaggc ctgtggtggc atagcagcca gagtctgtgc ggaaccgggt cgtgatctta   840
aaccttccat aggtgacagt gttgtgcctg gaaccaagtc gtggccagta cctaaagctc   900
ttctcccttc caccctcctc ttctgctgtc accattgcta taattgcaat tccctgttcc   960
cataccatct gccaaaaatc ttgacaggta ttctgtaatg gtccctgtgt ggcaatataa  1020
tcccattcga ttccactgac agagaccttA atatgtgatg cgttgatgta accagtgttg  1080
ttttctttag ttgggaccaa ctccactctc acatcatcat aaggaagaac atcttggaat  1140
cgatttcttt ctgcattttc agggagtcgt gctgttgagc actccccatc aactagccgt  1200
ttcttaagaa ttctttcata ttctgtgaat accattcctt gttctaatcg ttgttccaga  1260
attttacacc tttcatcatt cgttgctctg gtagccactt cctttccttc atcaggcaga  1320
ggcactcgag atagggagag tccatttagg gcagccagtt taagaggacc aatttttttt  1380
gcatctactc gagtcttttt cattcccct agaggcggga gcccttccac gatgttcttc  1440
ttcccagaga gaaggtccga caccggcctt ttcttcagag agtccctccg ggctcggtag  1500
cggcctgacg tggtgaggtc ggactccgac atggagggca tcagcagccc gtctctccag  1560
ggccgctggg cctctgcggt cgtgcggacg gggctgctgt ccatcatcct cttctccgcg  1620
tctgggacgt gggccttggg ctccaggatg tgcaggggcc cggcgagcag gacgcgaggg  1680
cagccaggtg ggtcctgggc caggccgggc cgaggctcgc gcgcacgtgc aggggggcgcc  1740
cgggcccgc tctcctcctc gaagtcctcg tcctcctcct cctcgctgct gtggattagc  1800
atggtggcgt ccgacaggga cttcttatgg ccgtacctca agccctccgc ctcctccggc  1860
ccttctcgct gtgtcctctc ggtgaaaacg ctggggctgg gagcccaccg agacggctcg  1920
cggcgcccac ctctgccgcc gacgcggata gggtgcgctc cttgagccgc aggccctcca  1980
ggccgtggct gagcccggcc acctcgatgc tgttccgttt gtgcagctgc gcgtggcgcg  2040
cggcggtgag gggctcgctg acctcctgca gcgagtgcgc cacgggcagg ctgtcctcct  2100
ggaacgtttg caccgagtgg tgcacgcgcc gcgtgatgag gtcgggggttg ctgctgctga  2160
tgtaaaggtg gcgggacagg tctggcgtgc tgttggcggg cctggggggc gggtagggtg  2220
ggggtggccg gtacacctgc gtccgcatga tgttgggaga cgggtagtcc tgcgcctgca  2280
gctgcgcatt ggtcagctcc ggcacgctga ccgcgcccac cacgggccgc cgctcggcag  2340
ggtaggggta gggagacggg ctgtggaagc tgtagctcag gctgaacggg cagtgtgcgg  2400
ccgctggcga ggggagctgt gcgtgctcgc ggatctcggg ctggctgtag accagcgccg  2460
cgggcctgct gtaggcgtac gagctgccga tgttgaggtt tcgcagcgag tggctctgcc  2520
gttccgcatg caccaggccc ctgttgagct gcttcatcac agtctcatag tctggggtgg  2580
ggcggtagga cgggggtatc acggcgctgt gccgatggga cgggaggtag tcaggcctca  2640
tgacgtcact cccggtgatg ctaggggttgg acgacatcgg cgagggctgc aagtagggct  2700
gaggattatt taaggagttg gtgctgtgtg cactgtagac actggcattt acggatccga  2760
ccgttgaagt caatctgggc tctattcaag cttgtctgaa attgaccata gtatcccttc  2820
ctggttgggc acaaagaggt tatcttggga agaagcatat ggttctgtat aatgtccatt  2880
atagtgcaac tggcggtggg ggaggcatca cgtagggctg gggtttaggc agagacatcc  2940
ttgaagaaga cctcctcctg attgggttca ctgtgacagt ctgagtttgc aggttacact  3000
ggtttagtct gtaaaacttg tgtcgcgcaa cacagagtct ccaaatgtat tttgctgttt  3060
ccatgtcttc agtttgaaat tgaatggtct cctctttatt tgccagctct aatgcaaaaa  3120
```

1891

```
aggacttgtt gtgggacatg ttggcaatgt catgccacct aaataccaca ggatgccttc     3180
cattcttgtg tttcacaaag ataccttcaa gacacgctcc aatggatatg tcacttcctt     3240
ggctatcctt agcagggtag ctctcttctc catagccatc cattctctct acctcctgca     3300
tgtacagcat ttcagcatca ggagctgtga gccctctgta tttctgatgt agtaaggcca     3360
ctttttgggt tgcttcttcc aatacttttt catcttgtaa ccatcccaca ggaaacaagg     3420
caaatttctg aagaaagtcc tgggattcat actgatcaaa gtcaccaaaa atcgcttgaa     3480
cagctaagcc tgctaggtga attggctgtt ccaaggtaca agggatacct tcttcccaga     3540
tatccttcct cagttgcaga taatactggt acccggtaat cctctgctgg aagcgaggaa     3600
cctgaggcgc ttaaacccc attccaaaat agacggtagg ttccaaggcg ttttttttc      3658
```

<210> 3099
<211> 1820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1810)...(1438)
<223> similar to gi4883636 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3099
```
tttttttttt ttaataaata gtttattcat ccagcagttt cagccctgat actgaagcct       60
gttgcggtgt ttcttatttt tctggctgga gcctgattat gagaacatgg cctcaccacg      120
gggccagcgc tcagattcct gccctgccga tcatccagac atcagaggaa atgagagtat      180
tgctcaaatg agggagactg gagctttatt aaggaaacaa aaaataccag taagactaga      240
gaggggtggt taatgtttct ggaggcagct gtggaatttc ctgtttgctc ccctctcct      300
gcctgccgca gatgaggaca cacggggaag actcgctgga gaggcttctc gcacttaata      360
aggccccccg tcggggtgct tctgggagcc tgcctcccag gggagcaggc ttgaggagct      420
ggcgggaggg ccggtgggcc ggcggcgcgg aacgctgctc ccttgtggcc ggcagtgggc      480
agcctgcagc cactgcgcct ctcccgccgc caagagccgc ggccggggta acagaaacgc      540
cggctgcgct gaagttcttg ttaaacagcc ccgcgtcggg gctgtggtca cagtaaagca      600
aggcgatctt cgcacacagc aagtgcgagg ctctgggccc tgacgcaggg ctcccaagct      660
cccggaatcg gcgttctggc tgcaggcctg gtctagagtc gcagcttctg tgagaagcaa      720
cactgaggcg ggcccgcccg ccctggggct gcccgaccct cctctctgct ctcagcccca      780
gtccctactt cgggatcctc ccaggaggct gtgccggctg ctcactcctc ctgacctgag      840
ggaccgtgtg tctgggcctg gtgtttctag acggtccccc ctacagtcac ttgttctaat      900
ttctagcacc ttccctcttc aggatagagg cccagccagc cagagcacag gctttctccc      960
ttcaccctgg agctctcagg taacaacccc ctgaaggcac atggaccaag ctgctcccca     1020
tcccgccacc cgaaacacca tccttgcccc acctcccagg tgacagactc cctggcgtgg     1080
ccatgcccca gcccaccagc cccacgcttg tcagctgggc ctgacagctg ctgctcttgt     1140
tttctattca tgaaaactca acccttctcc ccgtttctgc cagcacaaca gggcagagtc     1200
tgggctatca ccctggcttc tccccctccc tttaaaggaa gcccacattt tcctgcgagc     1260
cgaactcctc tgaagagtat ggcagacctt tggaatcgtg tcaggacgag actgaaagtc     1320
aaggcaagtg tgaattcagc accgcaggcc tggtgaccct cctgtgcctc tggagtgggc     1380
tgtcctggga caggctgacc aggaacaagt ccccgcccgg ggcttatcgc tctgagtcag     1440
agaaggaaga gggcttagtc catctccaca ccagcatgtc ctctcctgca acgcggtggg     1500
actccgtctg gatccgggat tcgttggagg ccaggaactc cacagctcgg tcccagacac     1560
gcttcatgcg cctccggctc tgtggaggga tcaagctgtc gcgcacgtgc aggatgccta     1620
catatggata gcgctccatg tcctgctccc agtccacgta atggtcctgg accacgtcta     1680
```

                                    1892

```
taatcttctt caccatctca tacatggctt gttcctcctc ttctaacttt cgccaccgat    1740
attttaggag aattaggagc ccccacaaaa aagccaagca ccagaagaag atgagctcgt    1800
gccgaattcc cgcaatgccg                                                 1820
```

```
        <400> 3100
tcagaaatta catctatatt aaagtttcaa aagctaataa tatattttta catcttcagg      60
tcaagttata gtaatttatt aaagaaaata aaattaattt cctttgctga tcaggagagc     120
tgatctgcag ttgtgcgctt tgtccagcaa gtacatgaga aagatgtatt gatggaccaa     180
atcattaaaa acaaaatcca caaggaagaa gaaagaagga gaagaagaaa gaaaagacga     240
agaaggagag gaggaagaag aagacgaagg aagaagaaga aaggagaag aagaacgaag      300
gagaaggaag gaggaggaga aggagaagaa gacgaaggaa ggagaaggaa gaagaaagta     360
agaagaagga gaagacggtg acgaaggaag aagaaggaga aggaagaagg agaagaacta     420
agaagaagaa aggaggagga gaagaaagaa ctaaggagaa gaagaagaag gaggaagaag     480
aaaaggaaag aggaagaaga aagaagaagg aggaagaact aagaagaaga aggagaagga     540
agaaggaaga aagaaaaaga acgaaggagg aggagaggaa ggagaaggga gaagaaaaag     600
aaggagaaga agaataagga acaagaaaaa aaaaa                                635
```

```
        <400> 3101
tgggacaatg tggaaaagcc ttcatttctt ccagtaaatt tcgaatgcat gagagaactc      60
acacgggaga gaaaccctat cgatgtaaac aatgtgggaa agccttcaga ttttcaagtt     120
ctgttcgaat tcatgaaagg tctcacactg gagagaaacc ttatgaatgc aaacaatgtg     180
```

```
gaaaagcctt catttcttcc agtcactttc gactgcatga aaggactcat atgggagaga    240
aagtctaaga atataagcaa cattctgaag ccttcggttg ttccagctcc ttctgaatac    300
acaaaagagt tcatactgga cagaagctgt gtgaatacaa acattgttct aaagccctta    360
attgttccag tttcttttga gcacgaaaga attcccactg gtgagaaaca gtatgaatgt    420
aaacattgtg attaagcctt cagttgacct aattcatttc aaagacagga ctcgtgctgc    480
agtgaaatct ggtttggttt ttgctttttg gtttttaaa aaaggccaag cttgttggct    540
catgcctata gtcccagcac tttgggaggc caaggtgcaa ggcgggcaga tcatttgagg    600
tcagaaattc gagaccagcg tggtcaacat ggtgtaaccc catctctact aaaaattacc    660
aaaaaatgaa ccaggcatgg tagtgcatgc ctctaatccc agctactcag gaggctaagg    720
caggagaatc acttgaacct ggagg                                         745
```

```
        <400> 3102
cagccctggt ggatgctggg aatgggaggt gacattctcc agggacaggt cctggaaggg    60
gtggggaaga ggtaggttcc agccccgcag aaccctggaa tccctcctgt gcctgaggcc   120
ctgcccccca gcatggacta atggtgtccc tacctctccc tcagggcagc cctgtggctg   180
ggaccctggg aacagcctcc catcccaccc aacatgccca agtgtggggg aatgttctac   240
agcagtgtag cctccagccc ttctctccag gaggctttga gagcccaact tactcccctg   300
cagagcagga aggtggtagg tcaagtgtgg ccaccattgg ggagacgaga aagaagtggg   360
gccccaccag attgcacaat gggaacctca gctggcccct gaacagagga ctcagttgtc   420
tccaccctac accgctattc cctggagctc agccaggcgc agccttggaa ggagaaaggg   480
ctggggttac ctggcttgtc ctcctccagg aaagcccccct tcctcctctg ccccagctcc   540
cagcctggcc tcctccaggc aggccctact cctctgcccc agctccggct ttccccatga   600
ggtttgtccc aggcatgaag aaagcatcca gagtgccaat gagtgggcct aggccagagg   660
cccctcagtc cccaagggta ctgttttggt ggcctttcag agggtcaagg aagccctgct   720
tggggta                                                             727
```

```

Run with FASTXY 3.3t00, default parameters


                                                                                                                                                                                                                    

```
    <400> 3103
tttttttttt ttgagtgtgg ttaatccttt accaatagct tttctgttac aattcacagg   60
agaatacata atggagagaa atcctatgag tgcagtgatt gtggaaaatc ctttaatgtt   120
ctctcatccg ttaagaaaca catgagaact cacactggaa aaaaccccta tgaatgtaat   180
tattgcggga aatccttcac aagtaactcc tacctttctg tgcatacgag aatgcataat   240
aggcaaatgt gaattcaata actgtgggaa aagcattcat tgatctttca tgcctcagat   300
aacatgagca aactctaaca agatgtatga atcacctgct actgtgtaac aaaattacccc   360
ccaaaatttt gtggcttcaa acaaaaacac ttgttatctc aaaatttttg taggtcagga   420
attcagaaac aacatagctc tatagttctt caggatatct caagaggtta cagtccagat   480
gtcagcagaa ctgtaatcat ccagaattgt tactggtgaa gggaccactt   530

    <210> 3104
    <211> 524
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (1)...(525)
    <223> n = a,t,c or g

    <220>
    <221> misc_feature
    <222> (85)...(238)
    <223> similar to gi2463531 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters

    <400> 3104
ccctgtattg tcacctgact ccaaaaaaat tattttgtgg cctatgggtc ttttgggtt   60
tgtctgctag cataggactg cttcctgttc cctctgagtt tgttgacctt tgctcaggga   120
cacttcagga gctagtttct aattgttttc tttcagtggt aggagtgaag gtggcaggaa   180
ttcccgggtc acccctgcag ctgccaacta ccgcagcaga actgcaaagg taaggtgggc   240
tccagcccat gatgctcagt gggggactca gacatggtgg ggcttgtgtg gctcctgaag   300
ttgtagaagt tgttgggacc aggctggttg tggttcaaag attgttcctt tggcttttga   360
gaaggaggtt tctaaggaag cgggacattt tcggggatcc aggggaggag taatgctttt   420
tcactttta tgtaaagctt cgtttgtgtt gtgttgttca ccaggcaaag ccttccaagc   480
aacagggagc tggggatgca naaaaggaag aggaggagta atgg   524

    <210> 3105
    <211> 419
    <212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(419)
<223> similar to gi285987 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3105
aataaagaaa gaaacagaag ctggccgagg agtgagttga gctttccaag ttagctgacc        60
ttaaagatgc tgaagctgtc cagaaattct tcctggaaga gatatagctt tggtgaagag       120
atcctagcta aaggtgtaga ccacctgaca aatccaagtg ctgtgtgtgg acagccacag       180
tggttactgc aagtgttaca acaaactctt ccactaccag tgatccagat gcttctgaca       240
aagcccctac cagttaatca gagacttgta agtgctggcg cttggccaaa gacgatgtgg       300
aatgagaaac aaatgtcaac ataataaaat ctcagttaaa atacttgaaa aattcttaac       360
ttggtagttg agcagaaggg caaatatgct tgttatgaac tattctacat tgaaatcta        419


<210> 3106
<211> 996
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(997)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (23)...(435)
<223> similar to gi1086586 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3106
gcgtgtcaac tctgaaaagg ccaagcttca ttaccttcgt tcttttgaca aggggccatt        60
tgctaccttt aagacgccgc atgatcgaac ttgagagtgg acaggactta acttcagcac       120
tgatgggacg ctcatcctta tttacaccaa cggcagcttc attcgcctga ttgatgcatt       180
caaaggagtg gcgatgcaca catttggggg ctatgccaac agcaaagctg acacacatgg       240
aggcttcatt tactccagac tctcagttta ttatgatagg atcagacgat ggcaagatcc       300
atgtctggaa tggagagagc ggtataaaag tagctgtgtt ggatggtaaa cacacaggcc       360
cgattacctg tttgcaattc aaccccaagt tcatgacttt tgccagtgcg tgttccaaca       420
tggccttttg gttgcccacc attgatgact gaccctgttg ctgcttggct atttctgtat       480
agtgagggcg gccagcagga agaaactcag agggaactga gataatagtg ggattggatc       540
atttgactgg gctggagaac atcctttttac atggccttcc catggatgtg ctgtacatct       600
gctcaaaaga aaataattac tttgatgagc gtcttcaaaa ggactcttgg tgcaacagac       660
tcaattggaa ctcagctttt ctaactgtca ctgcaccaag ctctgctgga ggagtgacca       720
gactcacgat ttggtatagt ggggctctca agcatcttca atttgaatgt acatgctgct       780

1896

```
gaggagccgg tgaagtcatc agttccgcac atcccttcta ccctccaact gcatgggaag      840
ccaaagtcct ggttttgaaa tgcttgggca gctcagccgc ttgccctcac cctgcatgtc      900
ttgttactgg gtctccctgt gtacttgtgg cattatccac aaccatcatg tttcttaggt      960
gccaaacatt tacagaaaca ttntcatata tcttgg                                996
```


<210> 3107
<211> 2228
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (215)...(617)
<223> similar to gi3877422 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3107
```
tcagctgcta gtaacagaca tcccaggcaa caaagaccat cacagactaa gccagcacat       60
catgaccagc agtgcctggc cgaaagggtc ccgaagccct atggttttcc ggtctctgat      120
gcagtgatag acatccaggg cacccaccct ctgcgccttg gaaagcctgc agcaccgtcg      180
ctaagagcaa gtggtctggc tgcagccacg cccctgctgc agagcgagcc cagcctcacc      240
agcgacgagc tgcacctgcc cgggaagcct ggcctgggca cgccctgcgc cagcctcaca      300
ctgggcccgc ccacaccgcc cgcctccatg cccaacctcg ccgaggccac gctcgcggac      360
gtgatgcccc ggaaagatga gcacatgggc caccagttcc tgacgcccga tgaggcgccc      420
tcgcccccca ggctactggc ggcgggcagc ccctggcgc acagccgcac catgcacgtg      480
ctgggcctgg ccagccagga ctccctgcat gaggactctg tgcgcggcct ggtgaagctc      540
agctccgtgt gacccacatg gccccaggcc gggggacacc agaggctcct ccatgggcag      600
caggagtgag cggagggggtg tgtcccacag cgactttccc agccaatgcc acggtggaga      660
tgacagcccc aggtctgggg tacagagacc acttaggatg gcacagggtg gctggccccg      720
gatgctgaga gcttggtttc atttgaattt tcttccccaa cctgagtgct ttgacaacaa      780
tggaaataga gaagtggctg ctttcttttg gtgaccctcc aggggtggaa tcggagtgtg      840
tctgcccgcc cttgtgacag acacacggaa ggcttctgac gcttgtggcc agactgcaat      900
tgcacttatg tgttatgcta ctaatatttg aaacagacct gccattccat ttgttaatta      960
aaaaaaaaaa aaatcctaaa gggaaaaaac cgaccaggtg tggatctgca tgccacgctg     1020
ccgtctgtgt tacagtggtg ttgcctaatt tcccaaggaa gtgcctgctt tcttttttctt     1080
tttttaattt tgtgaatttt caagtgctgt tttgttggaa gacagtgcaa cgatactgag     1140
acttaatgga cagtgtcatc actcagctta ctgggctgag gcgtctgtgg agaggtggca     1200
ccggggctgc agagggcggc tggggttccg tcgtgtcggg tgtcacttca ccttctgttt     1260
ggccgctcga tgaggtctcg tgttgagata ttgtgtgcca caacccccac agtcttcacc     1320
tccgtgtgtg atgaaacttc ccgtggacag ccaataaaat gacgtcctct gttattttgg     1380
atctgcgtac ggttatcctt aatagcataa atgaaaacaa agtcatccag atggggagag     1440
tttttcttga aatgtcccta gcgaggaatg gtccccagac aaccaaaagt caaatctttg     1500
aactgggaga tatttataga ataatttctt agataagagg caagttttcc atcatttatt     1560
ttctttaatt atctcttttt gacaccatct tagtggaatt tgctctacgt ttgcagtttg     1620
ccgtgcaaca gttgatcgga agtagggaaa agggagggga cgctcaggga gaaggttctg     1680
tagggcgtct tctgggcttc cttctgtgta aacgtgtcac tcaatcccag aagtgcaact     1740
tgaggtccta gtaaaggtat cagaaaatga ggaggagaaa tcggcttaga gtctaagctg     1800
agatcatgta ggtcatcatc cttcctagac actgatcaga atgaaattaa gaaaatgacc     1860
actttgttca ctttcattgg tcacctagaa gggaacgaac tggctctgga cttagggagt     1920
gtgtcactat gggggcagcc acaggggaca cagcaactcc tctcctggct tctttccaga     1980
```

1897
```
```

```
ccataaatct aacagctaaa gctactcaag ttcaaagcca tggccttgct ccttataacc   2040
atatgaaaga caagacacat tgaccaatga tacaagtaac ccaagtgatt tgcatttatg   2100
gaaaaaggct attactcctg agaaagagtt gccattttat attaaagaaa agaagatagg   2160
aaaaagaaaa gcacacaagt tttatttgga atgaaggcaa ttcacaggtc acaaaataat   2220
tcatgctg                                                            2228
```

```
        <210> 3108
        <211> 2631
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(2632)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (2632)...(2)
        <223> similar to gi338675 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
        <400> 3108
gcggccgccg ccacgtacat gaagtgcagc tgcgccggcg ggggcggctc cacggtctca   60
ctctgcacgg cctcgatctt gtaggggatg ttgaggctgc ccagcgaggc gagcgctccc   120
aggaatgcgg ccacgtcggt ggcactctgg aagcactgcg aggaggcctg cacacactgc   180
cggttgtcaa tctccaggta gacgatggag ccgcggacgt ccatggggtc cagctccctc   240
cgccgccgcc caccctcgct gccaccaggg agcagcgagg ccttcacctg gcccagcagg   300
gcgtcaggtg cggcccagcc ctcggcggca cgcttgatgg ggtgcttgcg cagctcctcc   360
tcgcggccgt agtaagggga agatcatctg ctggccgctg agcgtcacgc tttgaagacc   420
acgttggtgt tgcagcacgc gggcttgaac tcccgcagga aagtggaaag gagctgttgc   480
gcagctgctc cggcggcatc agcaccacca ctcaccgcgt gccggccgcn cagcctctcg   540
ggtacatgct ccgcacagtc cagcccgtcc cactcgcact ccgcgctgtt gcagccctgg   600
tcgcagtgcc cgtcgctgaa gtggtccttg cagtactggt cgtacagggg gttgcactgg   660
ccttccgcac gctggcagtc aaagccgtcg aagaggcagc cggctgagtt gcactggctg   720
tcacagtggc cgtcactgaa gtacttccag cactgcagag actgcgtgca gttcttccag   780
gggtcattga agttgaggga gcagtcaccg ccgtcccagc cgcacgcgtg gttgttgcac   840
tgcaggctgc agaccttgtt gcccgcgtcc tcctggcact cgggcagctc gcacgcctcc   900
tcgatcagcg gcggggggat gtcgcgcccg gccccacccc cgaagctgta gtccaggatg   960
tggcacaaga gcccgttgaa tttggcgggg cacaggcaac ggtagaaggg gctctcggat   1020
gtgggctcac aggtcccctg gttgtagcag gggttgccgc ccaggcaggg gctgctggcc   1080
gggaactggc attcggggcc cgtgaagggg cccaggcaca ggcaggtggg gctgcgcggg   1140
ccggagatgc atgtgccgcc gttgaggcag cgcaggctgc cgcaggtacg agcgtcattc   1200
tcacacgtgg cgccctcgaa gcccgcaggg cacttgcaga tgaaacccgc gggcggtgtt   1260
ggaggccacg gcgcaggtgc ccccattctt gcagggcttg cctttgcagc cattgatgac   1320
ggactcgcag cggcgcccgg tgtgaccagc acggcactcg cagtggaagt cattgacgcg   1380
ctgcacgcag ttctgggtgc cacgggcgtc gcagggattg acaggcact cgttgacatc    1440
cccctcacag cgctcaccca cgaagcccgg cgggcaggtg cagctgtagc cgcccacctg   1500
gtccacgcag gtgccgttgt taaagcactt ggggctccgg gacacggggt caacgggggg   1560
attgcagtcg tccacgttga tctcacagtg cacaccctga gtgccccgtg ggcaggagca   1620
```

```
cttgtaggtg ttggggaggt cgaggcaggt gcccccgttc tggcaggggt gggagaggca   1680
ctcgtcgatc tcctcagagc agttcacccc gtggtagccg gccacgcact tgcaggagta   1740
gccgcccagg tagtccgtgc aggtggcccc gttctggcag gggctgggtg agcactcgtc   1800
caccaggtcc tcacagtagc tgcctgtgta gcccgcctgg cagcggcagt ggtgcgtgtt   1860
gcccgcgtcc acacagagcc ctccatgctg gcacaggcgg gcaacgtcaa caccttgtcg   1920
ctgcgcagcc acctcacagg acacgctggg cacgtcgcag taaaggccgg tccagccgct   1980
ggggcactcg cagcggtact gggtgtgggt ctgccagcat ttgccgccgt tcttgcaggg   2040
cgaggagtca caccagtgca caaggttctg gcagttgggg ccagtgtagc cctggggggca   2100
ggtgcacctg tggagaccgc gaccgtcctg acaggtgccg cctagcaggc agggtcgtga   2160
gtcgcactca ttgactacgt gctggcagta gctgcccgtg aagccgggtg gacacaggca   2220
ggtgaacgag ttgatgccgt ccacgcaggt gccaccgttg aagcaggagc tctctgtgca   2280
gtcaggcgtg ttgttctcac agtggatccc gctgaagcct gcggggcagg tgcacgtgta   2340
gctgtccacg cagtccgtgc agttggcccc gttgcggcag gggtcactgg cacactcgtt   2400
gatgtcctcc tcacagaaag tgccccggaa gccgggcagg cagtcgcaga aggccgtgtt   2460
gatgccgtct gtgcaggagc ccccgttgtg acacgggttg ggccggcagt cgtcgatgtc   2520
ggtctcgcag ttgcgcccac tgtagccggc ctggcagtgg cagcggtagc cgccgtgggt   2580
gttctggcag gatgcgccgt gccggcacgg gctcagaacg cactcgttga t           2631
```

```
        <400> 3109
ctgagtctgg gccagaaagc ccaagcactt gcagggaccc tccccaaacc cagcctctgg     60
gctgagccag gctctgtgat tacctgggag agccccatga ccctctggtg ccaggggacc    120
ctggataccc agggttacta tctcaccaag gaaggaaacc ccatgacctg gtaccaacag    180
agcccaccag agcccaggaa caagaccaac ttcttcatcc catccatgag agagcaccat    240
gcagggagat accactgtca ctatctcagc cctgcaggct ggtcagagcg cagcgagccc    300
ctggagctgg tggtgacagg cgtgtctagg aagccctccc tcctgaccct gcagggccct    360
gtcgtggccc ctggggagaa tctgaccctc cagtgtggct ctgatgtcgg ctatgacaaa    420
ttcactctgt acaaggaggg gggacatgac ctcgtccagg gctctggccg gcagccccag    480
gctgggctct cccaggccaa cttcaccctg ggccctgtga gggtctccca cggggggccag    540
tacagatgct acggtgcaca caacctctcc tccgagtggt cggcccccag tgaccccctg    600
agcatcctga tcgcaggaca gatccgtggc agaccctccc tctcggtgca gccgggcccc    660
acggtggcct caggagagaa cgtgaccctg ctgtgtcagt cacgggagca gttggacact    720
ttccttctga ccaaggaggg ggcagcccat cacccactgc gtctgagatc agagcaccaa    780
gctcagcagc accaggctga attccccatg agtcctgtga cctcagccca cgcggggacc    840
tacaggtgct acagctcacg cagattcttc ccctacctgc tgtctcaccc cagggacccc    900
ctggagctcg tggtctcagg agcagctgag accctcagcc catcgcaaaa caagacagac    960
tccaagactg gtgtgtaagg agatgctctc ggttatgggg ctggcacaga gggtcaggtc   1020
ctgtgaaggg gaggtgggtg ccctgggtgg acatccaggg gtcccgggtg atgttgatct   1080
gccctgacct ctgagacctc ttggtccacc atccccagcc tcacaccccc aggattacac   1140
agtggagaat ctcatccgcg tggctgtggc tggcttggtc ctggtggtcc tcgggattct   1200
```

gctgctttag gattggcaca gctagagaag tccccaca

<210> 3110
<211> 1777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1778)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1433)...(717)
<223> similar to gi3135493 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3110

```
tttttttttt ttaacatatt accacatcca acttctttat tcttgagaaa acaaaaaagt   60
ccaaaatcaa aggaaagcac ccgttttaaa ccctcatatc tttctcaggg ctcactgcag  120
tctggccata tctcaagcag gtctgtccaa tggcttggaa catagacttt tgcagtgaaa  180
ctttaaaaac attacttgaa ttaggattac acaaaaaaaa ctaaattcta agtgagcaca  240
actatcgctg agaccctgaa atttcaggaa ataaacatgg ttcaaaactc aaactgttca  300
tcaaaataat tacgcaggtc agccaccact gcagaaccat cactgctcag aggaattgag  360
tcagcaatga ctgatctcat catctcttca ttagcacata agcggttcaa cttgggatac  420
gcaaggagtc tctgcagagg tacgaaaaat ttatctccaa cacagaaggg tgtgggagag  480
ttctctatct tggccttctc aacctctgtg aagactggtc caaagcatgg gacaggggcc  540
tttgagccac caatgtcttt gggcttatca ccccgttccc cagcctgttc tttccgcctt  600
ggcaggtggc tcactcttaa gctttccact tgttgggaca cctcattaac caacacaagt  660
ttaaagaacc tttcctgctg taagcttggg tatgaggtgg taaaaacagc tttataaaca  720
tgctgatcat gctgctctga aagacatgat tctgttgcct ttcctccatt tttccggaag  780
attcctatct gggtacagta tccaacattc tcagctccag ctggtggttc cccgacacca  840
gtaaactcca cagagtaatc atagcgattt gccacatata aagcccaggt ctgaaactcc  900
attctggtcc actcaaattt atgatctgaa tctcttaagg tcactgatgg aaacagggga  960
ttgaattcag agtttggtgt gctgatgaca atcatggatg gagacaggta cccaaatacc 1020
acttcaggac aatctggcca gatcacctga actccaaatg ttctattaat tcaatacacg 1080
ttatcaagtc aaatccaagc aaacgagagt ctctctccgc aacggagcca tgatacaatg 1140
tgatggtcaa attcagatcc cgaggtttca gaaaatcccc caggaaagga gctaacgaat 1200
cccctctcca tcgtaattta tcctcattaa tatctactcc aacaagcaat tcaatgcatg 1260
gattgacttt tagcagcctt aagagtgaag tatcaccaca tcccaggtct gcaaccttct 1320
taggctcatg ttgatccact aaatttttaa cgaactggta ccgctgtctg tatagtggag 1380
gtttaaactg aattgccgtc tccctgggaa cttcttcaaa attaccgtca accacactac 1440
tgcactgtag attattttct tccattttgt ttcgaagttt tgttgaaaca aaaatgaaga 1500
tttatccttc aagctctatt tgagagaatc agcactgact cagctcgtgc gctctcacgg 1560
tcggccttgg ccccgggag cctcatggtg cgccgagctc cgtccctcta ggctctcagt 1620
tccaaggcgt cggttttgcg tctcgtaacg gccgctgtgg cgcatgccca gaagccattt 1680
tcaaggtcct cttccgaacc ttggcgagga cccccctcgtc caagctggcg tntgtggttt 1740
cagatcttca gttatcaggc nggggtctc taaaccc                           1777
```

<210> 3111
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1803)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (12)...(676)
<223> similar to gi296669 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3111

```
cccgccggct cccaacagct cccaccagct tgtcaggaca acaccgctct ctgcggctgg    60
caagcaagcc tgagcgtgaa gtgccccttg gagcagggca acaggagtcc atggaggcag   120
acacagacct agaggcaggc ctggaagaag aggcggtggg gggcctgggg cctggagcct   180
gggcctgcct ccccgggcag ggtcttcgct atctggaaca cctgtgcctg gtgctggagc   240
agatggcaag gctccagcag ctctacctgc agctgcggat ccagaggccc ccaggggatc   300
ccggcgagga ggagtcgacc cgagcccctt taccgtcccc gttacacacc ccaggcaatc   360
gggggcaggg gccatgggag ctgctaagcc agacagagca cacaggagca aaggctgctt   420
cacccccaaa ggtggaggtg cccagtgcca accctcccag gctgccagaa accccagtgg   480
agccaacgta ccacttgcca tcctcccagg gacacaagcg ggatatctcc cactgggaca   540
aggtcaaggt cctgctcaac cggatctgcc ggagaagcca ccaccaccct gagccccctg   600
cccctcctga tggctctgac cccaggatcg agtccaggga cctccctgaa aggcctcagt   660
gccgcccccа ccggaagacc tttatgccat cattagtggt taagaagcaa cgagcaaaaa   720
acctttctgt aggctgagac ctctcggtgc acctggtgac cctgggtgga ggggacttgc   780
tgtgaagtct tcctcgccct ctgccctctt gctgcttctc cacattgcca ggaaaagctg   840
ctgacgcctg ccctcctctc ttgagtcgag ggctgaatct ttctcctcta agcagtctgg   900
tcaggaacct tggtttcttg agaggccccc aagatgccgc agctccaggg ctcttcctcc   960
tcaccagaaa tccctgggct tccacaatgt gaactcactc attgtcaggt gtccgtggag  1020
tgttttttggc atggtgacct gtctgggccc agcatgttgc agatgtgtat ttatgcgcaa  1080
tggtatgcat atctctgtgt gactgtcagt gttgcaagct ggctggatcc aaccatctct  1140
tctgaaataa tgcatccaaa gggttgatat tctggggggag gtcactgcag aaggatggaa  1200
ctgaccttta ttccccagtg ggcagttact gagctttcct cctcagagcc atgctggcag  1260
ccctgggaca gagaacggtg tggctttggc tgcctctgca tggaatcttg ccccggactc  1320
ctgaagactg cacaaggaat gaggaagatc agggacaacc tgggaactga ataactttca  1380
aagccagtgc tcagcttctc tgctccgtac tagcgtttac aggtcttaat tcaaaccaga  1440
tgcctgtact agttttttaga ccccaagtca accttctga gccacagctt cccgctggga  1500
ataatgatgc ctgccctatc tacctcacag acttgttatg aggataaagt gagattaaac  1560
tgcctcaaag tgcaaaaaaa aaaaggggg ggcgccttta aaagaacaa attttaaacc  1620
ccgggtttgg aaaattaaat ttttttttaa gggggcccca aaattaatta caggggggggg  1680
gttttaaaaa acggggggagg ggaaaaacct ggggtttccc aaatttatag cgctggggag  1740
aaaanccttt gctggttggt gggtttgag ggccccccccc cctttaacac ccccaccggt  1800
aa                                                                 1802
```

<210> 3112
<211> 1990
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (153)...(515)
<223> similar to gi3108185 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3112
```
ggaattcaca atttagccta taacaagtgg gaacaaaact ccacctcttg atcttgagga     60
gctgcagtca gattgaaaag gagtatggac agtgggggaa ataacggaga ccattattgc    120
aaaaaaaacc acactgactg atcctccaca cctggactag tttgggccga ctgatcctcc    180
acatctggac tggtttgggc aaaggcaaca cccttaggca cctcctctca ccagctgtac    240
cttctccctc cttcccctgc aagccttttc ctggagttta ttggtgatcc caagcctcca    300
gcctggaagg gctacctcct cgccgtgctg atgttcctct cggcctgcct gcaaacgctg    360
tttgagcagc agaacatgta caggctcaag gtgctgtaga tgaggctgcg gtcggccatc    420
actggcctgg tgtacagaaa ggcatccaca gcatatctga agaaatattc agaagttaac    480
taatctcaga tgatttcagc aggagtaaag aagagaaaca gactcagaaa tgccattaca    540
acagttaatt atgtcaaatt tatcaccctg attgatcacg cagcattaac ctcaagaacg    600
ccaagccaag ttttttttgac aaatgtgagc caaggtttcc gaaaaactag cagatatgac    660
tgtgacttac aaaatggaaa aagtaaacga gaaacacaat ttgatatgat ttaataaaag    720
atttgtttcc accacttctc ctgggaacct cagcacattt tctttccact gacagttatt    780
atctctacct ttattgaaca aagacacccg gaacacagct gctgaggatc agtaaagaaa    840
atcattcttt tattaataag actgttatta gcaggaaaaa aaaatccatg tttgggagtt    900
tgcactgaag ttacaggcca tttttgaagaa atatggctga ctagtgccaa cattatttca    960
ggcaatttca tgatcaaatg tcttattagg ttgtttaaaa tttttataga gattgtaaat   1020
cagaactatt ttctatttgc cctaaatatt tagatgctac agggaaagca gatcaaatta   1080
aagggtactg tgcacatttt tttactgggg aactcccggg gatattaaat catttcgcct   1140
gcagcatggg aattcttcag tacacatgct tgtggaaaca ttccacgctc cgccagcacg   1200
gctcattaaa gtgatgattt ggggttgcaa caacagtggc caagtacttc ctgtgttcaa   1260
ctggggacca tgtggcaaga ccccaaagct tcccccagag atcctatggg gaataaggtt   1320
tttggagccc accatattcc attatttcag ccctaaaatt aacacccatg gggaccagga   1380
atccagaaga ccagaggagc cagaccaaat gtgtgtaaga catgctggaa gggaaacctt   1440
cctttttaga aaccagggtc aatatcctat taaactttaa gattgtgtat ctcttgcccc   1500
tggcagtttc ctgtatttga gtttttaaccc tactgatata ccccatgcat gtgaataaag   1560
tatcttcctg catgtaacag gatatttaat gtaaccttga ttatagttgc aaatgctggg   1620
aaacgatcca aatgtctttc aatatggcac tgattaaata aattatggca cagtctcaca   1680
atgaaaaacg aaatgtagcc attaaacaga atgaaatggg tctagctaaa ttgaaatagg   1740
actacctcta agatatgttg ttaaaaagaa aaaaagaaa gtgcagagga acaagtatga   1800
taccattttg tattttttaa catatgcaag cgtgattgtg cccacacgag aatacctttg   1860
aaaataaact cagtatttgc ctcagtggat aaaaacaaga accagcctta ttttcactgt   1920
tatatctttt ggtgccactt tttgaacttt ttaccatatg tgcatatgta actttctaaa   1980
taaattttgt                                                          1990
```

1902

<210> 3113
<211> 1481
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1293)
<223> similar to gi1857145 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3113
```
atggatgtta acagcagcgg ccacccggac ctctacgggc gcctctgctc tttcctcctg      60
ccggaggtgg ggggcaggct gcccgacctg agccccgacg gtggcgccga accggtcgcg     120
gtctccggga cgccgcatct gctgagcggg ggcccccgag gtgacggcca gcccggcgcc     180
cacctgggac gcaaccccgg gcaatgcctc cggccgcggg gagcaaatca agaaagggcc     240
gagaaagttg tgatcggctc tgtcctgacg ctcatctctc tgcgatcgcg ggcaactgcc     300
tggtggtatc tccgtgtgct tcgtcaagaa gctccgccag ccctccaact acctgatcgt     360
gtccatggcg ctggccaacc tctcggtggc catggcggtc atgcccttca tcagtgtcac     420
cgacctcatc gggggcaagt ggatctttgg acacttttc tgtaacgtct tctccatgaa     480
tgtcatgtgc tgcacggcct ggatcttgac cttgtacgtg atcagcatcg acaggtacct     540
tgggatcatg aagcctctca cgtaccctat gaggcagaag gggaaatgca tgacgaagat     600
gattctttct gtctgccttc tttccgcctt tgtcacttta cctaccattt ttggtcgggc     660
tcagaatgta aacgatgata aggtgtgctt ggtcagtcaa gactttggct acacgattta     720
ctccaccgca ttggcatcct aatccccatg tgcgtcatgc tttttcatgta ctaacagatt     780
tacaaggccg ccaggaaaag cgcggcctaa cacaggttac ctggcttccc tcgagtggag     840
ccagacagca gtagtcaccc tgaatggcac agtgaagttc caggaggtgg aagagtgtgc     900
aaaactttcg agactcctca agcatgaaag gaaaaaatat ctccatcttt aagcggaaac     960
agaaagcagc gactaccttg gggatcatcg tctgggcctc caccatgtgc tggccgccct    1020
ttttcctcct gacagccaga cccttctgtc tatggcactg cctgcagctg catcccactg    1080
tgggtggaga ggatatttcc atggctgggc tatgcaaact ctctcattaa ccctttattt    1140
tatgccttct tcaactggga cctgaggacc acctattgca gccggctcca gtgccagtac    1200
cagaatatca accagacact ctcagctgca ggcatgcatg aagccctgaa gcttgctgag    1260
aggccagaga gacctgagtt tgtcctacaa aactctgact actgtagaaa aaaaagtcat    1320
gattcatgac tgaaagaggg ataatggaga tgaaataaac aaggcaaaat agaggtggaa    1380
acagaagaaa gtcatttgcc aagactgcag aatggaatgc agcttctgtc ctttcttaag    1440
atggctaaaa cgtgacaaac agcatgacct gatgtacaac a                       1481
```

<210> 3114
<211> 1328
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)...(633)
<223> similar to gi5730196 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3114
```
acgccaagct tggcacgagg agccttagag aacatcagaa agcccaccca ggggattaaa    60
tgtatgcata taaagaatac gaaaaaactc tgagctggaa atcaaacctc acaatacata   120
aatgaacaca caggagagaa ctgttaacat agtgagcact ggaatttcct ctacaatttc   180
agcctccacc aaatatcaaa gaatagaaga taaattgttg aaatctattt tatatgggca   240
ttctttcagc cagagcccag tcttctatgg atatacagaa ctcacacagc aaagaaaccc   300
tataaacata atgaatatgg aaaatactct tgcgaactca ctcctcagaa aactcacgct   360
gcagaaaagc tctgagaaag taataaaaat gtgaaaactt tgtgccaaca atcaaaactc   420
attcaccatc agagaaatca cacaatgaca aaagctagaa tataataagt gtgtgataaa   480
ctttaatgaa aaagtcagtc cagcaggaaa ttccattcaa gatagagacc tcatagtata   540
ttaaaacaaa caagaaatga agttaatgga tgtgggaaat tcttctgcca tgtcaaccct   600
cattttaacc tacacagagg taatccctat atgtcgtata ataactattg aaatgttcac   660
tagtaatcat tttcacttct ccctcatgcc acacctgggc cttaaatttc ttcaaccact   720
tctcttcatt cttaaacggg gtcatattgt taccctctag ctagtggaat atggggtcag   780
tgacaggtct aaatacatc agtcaaattc tcaatatttt cttctatccc tcattagaat    840
ggaatggagg aaaaccttgg gactcaggct ctgatgatgg aaagtacaag atggtaggaa   900
cccgggtcag agaaggatcc tgtggcatgg agttttctcc tccctgtaca cagttggact   960
tcttgcagtg aggaaataaa tgtgttccct gctgaacttc taaaggtttg ggtatacttg  1020
atactgacag aaactcaaca accctcacat aataaaactt aggagtatga tttttcagga  1080
catctgaact cagtgtatgt cagaaaagtc acataggaca aatctcggac agcatcctga  1140
atgaccatgg cttttatccc caaagtcttc ctcatcagac aggtaatatc ataagaaatc  1200
tgacatttta acaaatatag gaaattcttc acacacacag acacacactc acacatacac  1260
acccaaagtc tcattaaata tatgataatt taagttttga tggtgaaaaa gtttcaacaa  1320
attatcat                                                           1328
```

<210> 3115
<211> 3294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (18)...(942)
<223> similar to gi4096591 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3115
```
agcaggagga ggaggttgat gccaaacgca aggagaagca ggaggaggag gttgattatg    60
agagtgagga agaggaggag agggagggcg aggagaacga cgatgaagac atgcaggagg   120
aacgaaatcc ccacagggaa ggtgctcgaa agacccaaga gcaagatgaa gaggtgggct   180
taggcactga ggaggacccg tcccttcccg ccctcctgac gcagccccgg aaacccaccc   240
acagccagga gccccagggg cccgaggcca tggagcgccg ggtccaggct gtgcgtgaga   300
tccacccgtt catagatgac taccagtacg acaccgagga gagcctgtgg tgccaggtga   360
cagtgaagct ccctctgatg aagatcaact ttgacatgag ctccctggta gtatctttgg   420
cccatggtgc cgtcatctat gcgaccaagg gcatcactcg gtgcctcctg aatgaaacaa   480
ccaacaataa gaacgagaag gagcttgtgc taaacacaga aggaatcaac ctcccagagc   540
tattcaagta tgcagaggtc ctggatctgc gccgcctcta ctccaacgac atccacgcca   600
tagccaacac gtatggcatt gaggccgcgc tgcgggtgat cgagaaggag atcaaggatg   660
```

```
tgtttgccgt gtatggcatc gcggtcgacc ctcgccatct ctccctggtt gctgattata    720
tgtgcttcga gggtgtttac aagccactga atcgctttgg gatccggtca aactcttccc    780
cgctacagca gatgacattt gaaaccagct tccagtttct gaagcaagcc accatgctgg    840
gatcccacga tgagctgagg tctccttctg cctgccttgt ggtcgggaag gtcgtcaggg    900
gcgggacagg cctgttcgag ctcaagcagc ctctgagata gcagctaccc cggcaccatc    960
tgcccagctc caaggaccct tggtgagggc gtggcccagc ctgccttctg catgagagga   1020
ccaggagact ggaatccagg gcagttccaa gtgacagtac agagcacagc agcgaccttg   1080
ggcctgaaag cagtgggcct ctgagctggg ccagcttcac ctggaaagtg acagagttgc   1140
tcatccttgc ccctccctgt ctctggattt ttatcaaggt ttaccaagtc ttctgagtcc   1200
ccctgagatg gctggggctt cacctgtgct gcaggaggcc tctgtggcat aacccctaag   1260
gagaagtcct gattcacgat tcactgagaa gaccaagggg aagccatgct ttgctgctgg   1320
ggaccccagg cacctccaga gtagggaagc ggggttcttt tgctgtgagt ggccagggac   1380
aacagacaag attcctgggg gctcccgatg agcaggaacg tggagcctgc tgcccaaggc   1440
ctgctccttc cggctgctcc agcccctggg ggcagagtcc acaaagagtc cccatcaaga   1500
cttcttccct gagtcaagta cagcgtagca tagtcctcca cccacccaac ctctctgcct   1560
ggccagggtc ctggccctgc cactgtgtgg cgaggtgtcc ttctagacca catcagcccc   1620
aaggctggga gcagtcgctc cagggccgca gcagttcact cccacacata gaacccaggt   1680
cactgctggg gcgattgaac aggttgcctg gcttttctct gctgtcagtt tggtgtggag   1740
gcctatgttc tgccccatac accccacagg ccctgcttat gggaaggaac acaggcctcc   1800
agcccagagg actgtgccgc cctgttcttg gccgtccacg tttcctctcc ctctagcacc   1860
agcaatacat ttccctggca tggacagaaa agacagagag gacttataca aaggttttgt   1920
aaaaccagag gctagcttct atctttgtct actgttattt cagctcaggg cgggtaatta   1980
acatcattgg aactagctat taggaaagaa aaaaaacttg gttttttta caacaatttt   2040
ttcccttggt ttgcagtttc tgcatttgga tttgagaacc cagggcgggg attttcttgg   2100
cacagtcagg tcttgggtcc ctcttcctgt gctttcttgt ctgaggcctt aggggggaaga   2160
gctcagcctc tgcagcctcc tccacctctg ccctggcct gcctctgctg tgacctcctt   2220
ccagagctag ctgctggccc tgtggccagg agaagcagag gggagaagcc tttatgcaga   2280
agctgtgcta gccttggtct ggggtgggga ggctgctgct gtgaccttag gggtagggtt   2340
ggggatcaag ggaggctttg tcaagggaga gtgaccatgt tgctccctac atccatgcaa   2400
taggacccag cctgcacctc ctaggcctac actggggaaa gcctgacaga aatcagtacc   2460
tcctaacggg gtctgccagg ttcaccaagg catgggcaca gaggaatatg acagttttga   2520
ggcaggcagg aagggcccag cctgcagggt aagacattca ttctttgagt taaaggccat   2580
attcacttga tgatttctac acacactaga attgtgagag tgtccttgaa ggagatcaca   2640
aagtaacctg gtgactgtgg cacagggtcc gtggattcca tctctcccag gcactgaggg   2700
cgcagaggcg aaggagcaag ccctgcatat tggcagggct gtgaccatcg cacttagatc   2760
agacccccga cctgtgttgg gatgtgaggg atgccctcct gccccaccca tccacatggt   2820
tcctgggcag ctctgtttta ttcctgtgtc tttcctgatg gatgagtatt aagacagcat   2880
gtctggtttt taaacagaca tttgggagct tgcacatcct gatgagcagg gactcactgt   2940
ggtggcctta gggaattaca cgctcacttt ggtggttctc tatgctcgga agcctctgag   3000
agtggccttg gcagcttaag atggcagagg ctttggagtc ttcttaggac tgtaagtgcc   3060
cattgaggat gcatttgagt tttggaaagt aggcccaagt caaatctgat ggatggattc   3120
aagaacatgg actaatctgc gttgtcattt ttaatcaaaa tgtaatggag attgatcatc   3180
tggtgggggtt cacaaacttt tcatgagagc tgtgagttct ttttttgaga tgcacttttg   3240
cactttgtta cccaggctga gtgcagtggc gcaatctcgg cttccactgc aacc         3294
```

<223> similar to gi5917666 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3116
acagtgaagg tggctgagac caggacggag gcagcacaga tggggagaca tgattggatt   60
ctgcctgttg tgaagctgga gccacaggac tggctggagg ccagatgcag gagtggtaga   120
ggggaggtag gatgtggacg agcattggcg tccctgggag gacacagcgt ccatcctggg   180
gcaggcactg gggaggagtt gaggagttca gtttgggaca tgacactgga gatgcttatt   240
agataccagg tggggaggtc gagcgggcca tggagggctg agtctgcagt tctgggggcta   300
aagagagatg tctgggaact gtcagcacaa aaggagccat gagactggat gagatcatcc   360
gggtctgagg actgagccac aggcaccgtg cagaccagga ggacacagaa gggcatggga   420
ggacgtggaa ggacatggaa aactccaagt ggcccagagg aaactgtggt cagccctgcc   480
ttccagagtt gggggagtgt aagagctgag gcccaaagga ggagtcaggg atgctaagcc   540
gtggaaaggg tagtggaagg actttccttc tggaaaggga tgacagcgtg gacaaaggcc   600
gagaggtggg gaacgaggct ggaggatcac gggccattca cacaggcagt gaaagtcagc   660
ctgaggattt agcccagagg tgatggagcc cctgaagggt gtgtgtggag ggcaaaggag   720
aggggacaag acaggggggac ggctcaagag gctgcggcgg ggcaaggcca gtaccc   776

<210> 3117
<211> 570
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(571)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (41)...(570)
<223> similar to gi4678718 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3117
ggccncnnnn naaaatgatc tcttcggggg gaatattntc actatagcca atcccaccga   60
tgttctaaag attcgaatgc aggctcaagg aagtttgttc caagggagca tgattggcag   120
cttcatcgat atataccaac aggaaggcac caggggtctg tggaggagtg tggttccaac   180
tgctcagcat gctgccatcg ttgtgggagt agagctacca gtctatgatt ttactaagaa   240
gcacttaata ttgtcaggaa tgatggaaga cacaacttta actcactttg tttccagctt   300
tacatatggt ttggctgggg ctcttgcctc taatccaggt gatgtggcag gcactcacgt   360
gatgaaccag agggcaatcg tgggacatgt ggatctctat aagggcactt tggatggtat   420
tttaaaaatg tggaaacatg agggcttttt tgtattctaa aggattttgg ccaaactggc   480
tttggcgtgg acccttgaac atcattcttt anattacata tgagtagctc aagaggcttt   540
anatctaagg actgaattat atgtgagccc   570

1906

<210> 3118
<211> 1253
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (977)...(677)
<223> similar to gi1872200 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3118
```
ggaattcctc tgtcccgcca tacacagggt gggacggggc agggcgggca ttgagctttg     60
tgtcctgggg tcagggtgct tcccctgccg gcctcacccc accaagcgga tctcatggtg    120
ctcctctggc tgggcccacc cgcagtggta tccttctggg ggcccttatg ggagcctgcc    180
gggggtgcag atcctgccgg gggtgcagag cctgctgggg gtgcagatga tttctgggtc    240
ccaggaccat gagggggctg ctctacacac agccggaaga tgctgcggac ccaaactggc    300
cctttccctc ccacaccacc ccaggaccaa tgggctggct ggaggccacc catgctaaaa    360
taggctcaag ggcctacttt agcttctggg caaaggtctt ggcctgggcc tgactctgtg    420
gccttcctga gctgcctccc cagtaggcct cagtgctggg ctacaggcct cctccattcc    480
ctccattcat gtgaccccac ccctcccagc agaaactctc ttccgtagcc caggagcagc    540
tgttgagggt ttcacctgcc catgccccag cctaaggccg gcttccccag agcagacggg    600
ttgcactctc ctgcccctca ggcccactct gtcatccaac aagctcactg caactggccc    660
atcttaaaaa caacaccggc tggtcacgct ggctcacacc tgtaatccca gcgctgtggg    720
aggccggggc ggggggatca cttaaagtca ggagtttaag accagcctgg gcaacatggt    780
gaaacccgag ctccactaaa aacacaaaaa caaattaagg caccctgagt ggtggtgggt    840
gcctgtggtc ccagcgactc gggaggctga ggcagaattg cttgagccca ggaggtggag    900
gctgcagtga gccacgatcg catcacgcac tccagcccgg gcaacctggc aagaccctga    960
ctctaaaaag aaaaaaacaa caaaaaaaaa aagcccacgt tcaagggcag cactattcaa   1020
aagagggaag caactcagga atccaaacgc gcaggaggga acacatcggg gttcatccac   1080
aggggaacac gattcacccа aaaaaaggaa ggaaccggc ccggcccсgg gacttgaatg   1140
cacctggagg agactgtgat gaacaaaagc acccaaaccc aaaagggcag ggacggggtg   1200
atctgactga ggtgaggacc ccagccagcc aaattcatgg agacagaaag aag          1253
```


<210> 3119
<211> 1826
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1827)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (124)...(588)

        <400> 3119
ttttttttt ttgccttctg gatttttttt tttttaaagg gaggttggtt cctgcatttc   60
cactctttga ccataggaac gcctggctac aaaagggct gtaattggct gctgcctata   120
ggggccccag gtccttcctc caattgcaag gcagcaactc cgaagttcta agtcccatgg   180
aaagtggcag tggttgggct ggactgtggc tggaggatca ccgggcctcg gttctcaagc   240
accatctgtc tggctgcagc tgggcccttc agctgggggc cagtgttgct ttccagctgc   300
ccccaccggg tcagatcatc tctgggcaag gaagagctgc tgggcatctc ttactgtcct   360
tctcggcagg gccttcctcc accttgggtg cctcctgacg cctgccccgg aagtcttcat   420
ctgaaaagga gagggaagct gcctcatcct ctaccctgca gggcctcgct caggcacggc   480
ccctagactg ggcaagagag ctgacccgac tctctctgcc cccttcattt gggacccatg   540
cagatccccc caggtagacg atgcatgggt ccagggagag aggcagcagg acactcaggt   600
gctggccagg gtccaccact gagctctgag accttggaca agttctcccc tcgtctttgg   660
gcctcaaatt tcctcatcta taaaatggga tggaaaagct ggactatcta gatgacctct   720
gaggcccttc cagtccttgt ttctggatgc ctcctgaccc tcgaatgtgg catgaggatc   780
agggttcagc tgcgggccca ggagggtctg aggcagagtc ttctggccca cgtggccttt   840
ggaagggact gggtgaaagt tgagaagcct ctgggcccac agactgaagc tgcccagtgc   900
ttggttctca ggccgagggt cccccatggg ggcaggcctg tctgccacct cacacccaaa   960
agaatattcc ccagaaacag tacctggcac ttcatgctac aggtacacat ctaggtggaa   1020
gtagggctag ggcccctttt caggggttgc agaaaggggg aagcaatgtc gaccaagtca   1080
gggggatcca tatctttggg tcacctgccc cccaaccctc agtgtgttcc tccaggggac   1140
agggcgggtg ctcccatgaa acacccagga actccgctgg gagatccccg atcatagaga   1200
agttggagct tcgatctccc ctccagcctc cccacacgcg tggccctcca catcatccag   1260
gaggttggct gttgacgcga cagcccccag cctgccaggc cattcaggaa aaccgtccca   1320
gggatgaggg gacactgccc tagtcctccc agtcccactg actctctgcc ccaccccctca   1380
aagctctgga ggtacctgac acacccacct gaccccccac acccttagta ctgtcccca   1440
ggctcatttt cctgaggtca gtggtatggc caggccctga cactctcgcc cagcttacat   1500
ctctggggat ggagaaacag cttcctccct gtttccctct ggctgctgag cctctgctat   1560
cctaggccct gtttgagaag catgaatagg agttctgata aaaaggtgga aagccgtatt   1620
tctactcgag gaagggaggg ccaacatgct tggagtgagg aggactcgtg ccccagttca   1680
actagagaaa tgaagggaag gtttgatatt gatggaagaa ccactttttc tcccaagaag   1740
tacataacct cagaccaaaa aaaaagttaa tagncnnntt ncgngnctct nctgttncaa   1800
cgttcacagg nnnnccggct caccc   1826

        <210> 3120
        <211> 1421
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1422)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (141)...(1026)
        <223> similar to gi3875538 in the genepept database release 114,

Run with FASTXY 3.3t00, default parameters

        <400> 3120
ggcagcgagg atgtggtaca gcgcatggac ctggagggag gctgggaact gctcaggacc   60
tcggcggggc atgaggaggg ggccaccagg ttggccagcg gccccctttc ccagggccat   120
ggctgagcac gcagggcccc gactccccct ggtgctgaag acgctggcat gcacacacag   180
cagtgcgtat gagaaccaga gggtgaccac caccgccttc ctggccgagc tgctgaacag   240
caacgtggcc aacgacctca tgctcttgga ctcgctgctg gagagcctgg cggctcgcca   300
ganaggacac atgcgccagc gtgcggaggc tggtgctccg cggcctggcc aacctggcct   360
ccggctgccc tgacaaggtg cgaacccacg gcccccagct cctcacagcc atgattggcg   420
ggctggacga cggggacaac cctcacagcc cagtggccct ggaggccatg ctgggccttg   480
cgaggctggt gcacctggtg gagtcctggg acctgcgctc agggctgctg cacgtggcca   540
tccgcatccg gcctttcttc gacagtgaga agatggagtt ccggacggca tctatccgcc   600
tctttgggca ccttaacaag gtctgccacg gagactgtga ggacgtcttc ctggaccagg   660
tggtgggcgg gctggcgccc ctgctgctgc acctgcagga ccctcaggcc accgtggcca   720
gcgcctgcag gtttgccctg cgcatgtgtg gccccaatct ggcatgtgag gagctctcag   780
ctgctttcca gaaacacctg caggagggcc gagccctgta cttcggggag ttcctcaaca   840
ccacctgcaa gcacctgatg caccattccc cagacctgct gggccgtctc ctgaccacct   900
gcctgttcta cttcaagagc agctgggaga acgtccgagc tgctgcaccc ctgttcaccg   960
gtaagcacca cccccctgccc caccccccacg ccgccggca gccccgcctg atgcccccac   1020
ttcacagggt tcctggtgct gcactcggag cccaggcagc agccgcaggt ggacctggac   1080
cagctcattg cgggtgagca ccccctccacg gggccccctcc gctgggccct gctgacccotg   1140
taggcacccg cagggactaa gtgattttcc tggatttcag gacttttttcc ctgtcactgg   1200
tgacctcatc gtctctagta attcacggaa acttcttaac tgttccaaga gagcttaaaa   1260
aacactaaaa aaggaaaaac gatctttccg ttggctcctg agcctcccag cagaggctgt   1320
caggagagcg tggcccacgc gcaggcatgg gcatgccgag gtcacagccc gcaggcagcc   1380
cccctcctct acccccagcg ctccagatcc tgctgaagga g   1421

        <210> 3121
        <211> 1668
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1587)...(831)
        <223> similar to gi4929633 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 3121
ttttacattt tcttcttttt tttttctttt aaatgagcaa gtttgagagt ctgcagtttg   60
gactaccatg agaattgata ggaaggtggg agtcccaggc aatcccaggt cctgtagcag   120
cagctggtgg ggttcccact ccatgccgtg cagagcctga actcagggat gacacctgca   180
cctgctctct gggctgggct ctggcacagg aagcccctta agcaaacacc ccccgggcac   240
agccaatgcc aattagccag aacaaaaagc tcgctgtacc aacacccatc catgggagac   300
aagcaagtta tttctgagca tcttcactgc tgaaagaaaa ccaaggctca gaagaggacc   360
atggcttgcc acctaggcca acggggaccc aaagaatccc accaagtgtc aagacaactt   420

                              1909

```
gccccatgct cttcacggag cgaccttgga accctcccct gacaggcacc gctggctctc        480
ctgacgtggc ctgcaagtgc acggagcccc ttcctcctcg gccattccca gtttagattc        540
ccaggggaag catcagatgg cccctctccc ctgctggcag cagagcagac ggaaccagcc        600
agagcccagg gcagtgctca cctgcaggcc agtccactgc ggccagcacc gccccctaga        660
acctactgcg ggcatggcgg ccgccagtcc tgggtctccc ggctcaggta gtgccaggaa        720
gctgcgggca tggcggacag ctgtcctcgg tctggaggcg ccatcctggc tttcaaatct        780
gctccagagg ttatctgggg aggggctgct ccctcacaga gggagcctct aagcccacca        840
ggcgggcact ttcagcccaa agcctccggg ccacctcctc atcctcagcc tcggggggccg        900
gggccttctg tttgagtcca tcgaagtact ttccggaaat catccgccag ttcctccgcc        960
acggccaggg tattgtgctg ggctggggcg ggccagcttc ggggctctt tgaccaggca       1020
gccagaagat gggcccgagt tgtggtgctg gagaaaggtg gagccatgga tgcccgtgtg       1080
tctgcccagc tctgtcctgg ccacgccggg gtgcagggcg ttgacagtca caccagagcc       1140
ttgcagccgc cggctcagct ccttggtgaa gaggacgatg gcgagcttgg ctctggcagt       1200
aggcggcttt ggtgttatac ttcctcgtct gccagttcaa gtcgtcaaag tctatgtgcc       1260
cagcaacatg ggccagggac gagaggttga tgatccgcga aggggctgag gctttcagct       1320
tgtccagcag caagtttgtc aagagaaagt gacctggatt aaggatgatg aaaaggtcac       1380
ttttgactca cacctaaaat cccagcactt tgggaggacg acggggagg atcgcttgaa       1440
cccatggtgc agcccctgcc caggcctcac ccaggtggtt aacgccaaac tgcatctcga       1500
agccgtcctc ggtggtccag tgggggcacc gcatcacacc cgcgttgttg attagaatgt       1560
ccactcgctc ctcctctgga agagaggggt ggaggaggag acatcccggt gaggacagac       1620
cccagcctga tgcaccagca gaaacactcc tgtgctccca caacctgg                    1668
```

```
        <210> 3122
        <211> 1506
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1363)...(1103)
        <223> similar to gi436042 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
        <400> 3122
tttcgtccga gaggggtcaa atgcctgttc aaagggagag gttcggagca tggcctggga         60
aagtccatcc caaatggcgc tgtcccagga gcccaggcaa gcagggactc cccctagca        120
ccgggaccag catgtggtgc cctcaggcca gcagagtggg gcacattgga tggctccgac        180
ctcgaggaca cggacgatgc cttccagcgg agcacacacc gctcccgcag cctccgcaga        240
gcctacggcc tgggccgcat ctgcctgctg gatgcgcccc agaaccatgc gacacccacg        300
atagccactg gccaggtgcc cgccgtgtgt gagattctcg tgagggaccc tgaaaacaac        360
agcatgggct acaggaggag caagagcacg gacaattttg cctttctgaa gaagagctcc        420
tttaagcgga agtccacctc caatcttgca gacctcagga cggcccatga tgcacgggta        480
ccacagagga ccctgagcag ttcctccact gactcccaaa agcttgggtc aggaaggacc        540
aaacgctgga ggagcccgat aagggccaag gactttgaca gagtcttcaa acttgtgagc        600
aatgtgactg aggctgcctg gaggagggag agtcctagga gtggggcccc atccctgga        660
gaggccagcc tgagacttca ggcacacagc cggctgcatg acgactactc ccgccgcgtc        720
tccaggagca ctgagcagga cagcaggcgg ggcggggcgg tcatgcatgg gaccactgca        780
acctgcaccg tggcccccgg tttcggctca gccacctcta aggggcccca cctagacgct        840
gacactgccg tatttcctct tgaaaccaaa agttcctggg cggtggaaag cgacagttcc        900
tgcacttgca gctctttgcc aagcccgatt gtccaggatg tgttgagcaa agactcctgt        960
```

```
gacccaaacg ctggcagcca gttgacattt gaccctgagc agcctcccac ccctctaagg    1020
cccaccacac ccaagcccca gagccctcag agcccccaga gccccggggc aggaagtgcc    1080
agctgtcaca gcaatcacag tgccctgtcc gcgaattcag aggaaagtga aggaagggca    1140
gaagagcctg ctcagagaga gccagggcct gtgtccttgc aggatcccct ggaagccaca    1200
catggtatga gggcagcaag gaccttctgg tgaacattgg tgtggcagcc ggcccagaag    1260
aaaaggagaa ggaggaggta agggcagcgg cgaggtccct catgtgggcg accctcctgc    1320
gggaagggag cttgcacagg tgttgccctt ggtccctaac ctgtcaaggt cagtggccct    1380
ctgctgacct tgttgccctt acagtattag tgggaatggg agttgtcaag ttgctgttta    1440
ccaagttcag aagtaatctc tatctccttt gaaataaatt gacaatgtac gagattcatt    1500
gagatg                                                               1506
```

```
<400> 3123
gctcgcaggg cagtccggtg aagagctacg actacctgct caagttcctg ctggtgggcg     60
acacgactgt gggcaagggc gagatcctgg agagcctgca ggacggcgcg gcagagtccc    120
cgtacgccta cagtaacgat tgcagctgag aaggcgcgaa ntgcttggtc cctgaaaagc    180
tgccgcctac cctggtctgg agcccctgca agctggcgta gagcaggaag gggttgcatc    240
acggctgagt cctcccctgc gcanacaatg ggatcgacta caagaccacc accatcctgc    300
tggacggccg gcgcgtgaag ctggagctct gggacacgtc gggccagggc cggttctgca    360
ccatcttcag gtcctactcc aggggcgctc aggggatcct cttggtgtat gacatcacca    420
accgctggtc ctttgacggc atcgaccgct ggatcaagga gatcgatgag catgcacccg    480
gagtcccccg gatcttggtt ggaaaccggc tgcacctggc cttcaagcgg caggtcccga    540
cggagcaggc ccgcgcgtac gcagagaaga actgcatgac cttctttgag gtcagccccc    600
tgtgcaactt caacgtcatc gagtccttca cggagctatc ccgcatcgtg ctcatgcggc    660
acggcatgga agagatctgg aggcccaacc gagtgttcag cctgcaggac ctctgctgcc    720
gggccatcgt ctcctgcacc cccgtgcacc tcatcgacaa gcttccactg cccgtcacca    780
tcaagagcca cctcaagtcc ttcttcgatg gccaacgcg attggaacgc ggtcatgatg    840
cacggctgtt cctactccat ggccagcggg gccggggggcg gcggcagcaa gggcaacagc    900
ctcaagaggt ccaagtccat ccgtccaccc cagagccccc cccagaactg ctcgcggagt    960
aactgcaaga tctcctagcg gggacgggcg gggccgcctg tgcagatgcc aggagggctc   1020
gagctggaca ctcctggctg gacgccaggc cagtgccgcc tacgtggaga ctgtccacac   1080
agctgcctca gaagcgccgg gctttcctca cacctgagcc gggtgcgagg aggagcatgc   1140
acggaccaag cgcggcaggc gggaggaggg ggcgcggctg ggctgctggt gcttccggga   1200
atcttggtct gaaacaagcc gggcctcccc agctgcctgg gcttgaccgg cggggagcct   1260
ggttggcctt tcttatttat atagagaaca cttcactttt ttgtacattt ttaaggggcc   1320
```

```
ttcagggaag cctgggtgtg gcccggtggt ggtgcactgg tgacttcatg gccacgccag   1380
ctgcggggac gcacttggga ctcctcgaga ggggactcgc ggccgcgatg gcaaggcatc   1440
ctgtgaattc atgcgctgcg agtggcgggg ctgcccagag gccggggggag cagacagggc   1500
cggtgctccc tctggaagct tgggtgaccg gggccctggc tcccacggga tggagggtgt   1560
ggtcctgtgg tcagagccca agcagcactc aggagagggg agaaaggagg tgcacctggc   1620
agcccacatt tttgttgctc cccaaatccc tccccacgtg gggatgagaa ccttcctgct   1680
gtgatgtgac accttcgggg acattgacca ctcaaaactc agatcatctc gcccaccctg   1740
gagagtgcag agctatctgt agacttagga atacttgatg ggcagcggtg cagaccccgg   1800
gcacctgcgt gcagcctcct gttctcggca gcttctgtcg ctggccctgg ggtccccaca   1860
gctgcagctc tcctgtgagg ttgcacggca tcagaaccat cctgaccttc ttagggacgt   1920
gcctggaacc acctcgtcca cgtccacgtc cacctggggg cctcgggagg ctaggcccct   1980
cctcaaaggc ccaccagccc ggcgctcatg ctgagcccca ggcacgcagg gccggccacc   2040
tctctcctga agccattggc cgctcctcca cccagtgctt ctgcccatgc ctgccccagc   2100
agcccctctg cacggtcacc atcgcctggg cctgcccaca gcactggtgc tcacctctac   2160
ctcctgtcct caggccgtgc ggcacgacat ggccagcacg cagaaggagc cctcccggga   2220
cccaggaccc cccgtggtgg actccgcggc acatgcttcc caaggtggtc ccacggaggg   2280
tgttactggg caccagtgga ctcgccccat ggcccgttcc tgggagatga gggccgtggc   2340
ctgcatgaac taccagatga gtaagggaac cccaggcagg cggccctgcc acagccccc   2400
aaagacactg gcctcctgct ccagcttccc tgtcctggcc ccacctgtcc tgttgctgcc   2460
agcagggccc ttgtttggga ttatgaacaa acctcacaga ctttgaggac ctggatggtc   2520
ctgcattcac ggcatcaaca ctacccgcgc tgctgttaga cactccgcca ttcctggttc   2580
tctccgaacc gttctttgta cagtaaatgt aattcagctg tggta               2625
```

```
    <400> 3124
tttcgtcgga ggcgggcgcg ggcgcgtccc tgtggccagt cacccggagg agttggtcgc    60
acaattatga aagactcggc ttctgctgct agcgccggag ctgagttagt tctgagaagg   120
tttccctggg cgttccttgt ccggcggcct ctgctgccgc ctccggagac gcttcccgat   180
agatggctac aggccgcgga ggaggaggag gtggagttgc tgcccttccg gagtccgccc   240
cgtgaggaga atgtcccaga aatcctggat agaaagcact ttgaccaaga gggaatgtgt   300
atatattata ccaagttcca aggaccctca cagatgcctt ccaggatgtc aaatttgtca   360
gcaactcgtc agacggggtt tcactgtgtt agccaggatg gtctcgatct cctgacctcg   420
tgatccaccc gcctcggctt cccaaagtgc tgggattaca ggcgtgagcc accacgcccg   480
gccaatattt tgtaattttt agtagagatg gggtttcact atgttggcca ggctagtctt   540
aaactcctgt cctcgtgatc ctcccacctc ggcctcccaa agtgctgaga ttacaggtgt   600
gagccactgc atccagccaa taatatgctc tttaacaaac aatggatcaa aggagaaatc   660
acaagggaaa tagaaaaata cttaaaaatg aatgaacatg aaagaaaaca taccaaacgt   720
atgggaaaca gtgaaaacag tgcaaacgag gcaatttata gctatacacc attaaattta   780
aagataagaa agacgtcaaa ccaacaa                                        807
```

<210> 3125
<211> 1337
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1338)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (252)...(946)
<223> similar to gi1255433 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3125
```
tttcgtggtg actccagcgg aggagctctg ggacaccctt gtctagggaa gaggtcttac      60
tggctgccct cacctgactt tgtgtcccca ggccccagc catggccctg tccctgcctc     120
tgggccctag acttggctca gagcccctca accacccacc gggagcacct agagaggcgg     180
acattgttgg atgcaccgtc tgccccgcgt ccggagagga gagcacgagc ccagagcagg     240
cccagaccct gggacaggac tccttgggcc ctcctgagca cttccaggyt gggccaaggg     300
gcaatgagcc tgccgctcac cccccgagat ggtcaacacc ctcttcctac gaggacccag     360
ctgggggcaa acactgtgag cacccatt ctggcctgga ggtactagag gctgagcaga     420
acagcctgca cctgtgcctg ctggggctgg gccgccggct gcaggacctg gagcaaggcc     480
tggggcactg ggcattggcc cagagtggga tggtgcagct gcaggccctc caggtggacc     540
tacgaggggc agctgagcgt gtggaggcgc tgctagcgtt tggtgagggg ctggcacagc     600
ggagtgagcc cagggcctgg gcagccctgg agcagatcct gcgggccctg ggagcttacc     660
gagactccat cttccggcgg ctctggcagc tgcaggccca gctggtcagc tacagcctgg     720
tgttcgagga ggccaacacg ctggaccagg acttggaggt cgagggagac tcggactggc     780
caggacctnc gtggggtctg ggggccctgg gcacccagta gcctccccac ttccacagag     840
ttggagtggg atccggcggg ggacattggg ggccttgggc ccttgggaca aaagacagcc     900
cggacactag gagtgccctg tgagctgtgt ggccacaggg ggccccaggg caggggacaa     960
ggccttgagg tgagagcaga ccccccttgag ggaccttctg ccaggcaccc tggggacatc    1020
tctgcgcacc ttctagcaag atcctgccct tccaaggagg tgtcagtggc tctgtctccc    1080
cctctatctc tgtctctcgg tgtctccttc tatctcactg tttctctctc tcgtctgtct    1140
ctgtctacat cctcaagccc catctcaaat tcactcctat cctgaggccc ccagatgatg    1200
ccccactcac ctcctgactg tcccagtctc tcctgaagtg ccacctcttc agggaggcct    1260
gtcgtgacct ccaaacatga gcactcctat cttcttactt tatttcctaa cagcactcac    1320
cacagcttga ctttgta                                                   1337
```


<210> 3126
<211> 918
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (909)...(733)
<223> similar to gi190510 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

    <400> 3126
tttttttttt ttagaatata tttcatttta ttataaagca gtgctcccaa acttttcaca   60
gcgtacacct cgagggtgga gaactaacat ccaagcacac ctggatggtg gatgggaccc   120
acttctgggt aacctgatga ggaagctcta gtgaagaaat tcaggacgcg gtcttcagag   180
cagagggctt ggttcaagtc cctgttctgc cacttactaa ctgcatgacc ttgagcaagc   240
cacttaattt ctctgctcct tctctgtgaa atgggtacaa tgtggtcagc agtaaaggaa   300
ctaatacatg tacagcactc agcacaaagc ctggcacaca gcaggctctc accaggtgcc   360
attctcagca caactgcttg gttgagctac tgtggcagtg gcaggttgtg ccccaagggg   420
gtgggctcag gagcccgtgc agcaagaggc agtgaccaag gaggcagggg acaatagccc   480
tatcttttca ggatctctgc cttggacctg gagaatggag agactttgct cctatcacgt   540
cccaagttgg gaaaactaag gacgaagccg gtgactgaca tctgaaatgg aatcctctgc   600
atctccaagt ggccctatac ctgacaatat cattactagt gaaaaccaag tgacaaacac   660
actcctcgac cccaagttct tccacatgtc ccattgagga gagcacagcc aataacgcag   720
agtgtattta tgcgcagggc tggctaaaca ggctggctac gagtccggaa cagtgtcagg   780
atctggcttc ccattggccg acatgacaga atccttctcg cgttgctctc tgatgtactg   840
gtccaacagg gtggtcagct ggaggggctg gtgctggagc agggagtggg tctgggctgt   900
gaggcaggtg gagttctg   918

    <210> 3127
    <211> 1373
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (1353)...(1134)
    <223> similar to gi3002527 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters

    <400> 3127
ccagggggcat ttcgtggggt cggactggca gcagaatagt gtggtaatct gtgatgggct   60
gggccaggtg gttggggagt acaaggggcc aggcctgcat ggctgccagc cgggctccgt   120
gtctgtggat aagaagggct acatctttct gacccttcga gaagtcaaca aggtggtgat   180
cctggacccg aaggggtccc tccttggaga cttcctgaca gcctaccacg gcctggaaaa   240
gccccgggtt accaccatgg tggatggcag gtacctggtc gtgtccctca gtaacgggac   300
catccacatc tttcgggtcc gttctccgga cagttaaagg ggctaggact agggtgagag   360
ggagtgggga gggagagggc aggaaggagg cagagctgtc cgtgggaggt ggaggccgag   420
gacattttcc tgaagggcag gggttggcaa cttttcaaca tggagtgcca aactgctaac   480
ccgtcttcta gtgtgtgaga atagggacca aggtggtggc gtgaccttaa ctctcagaag   540
cagaggaggc aggtgggtgg agggggatgc tgggaattca cctgcctctt gctttttgtg   600
ggtggctgct gccaccaccg ccgctgctat atagtttagg tttctgaggt ttgtgagcct   660

1914

```
gtcctgcttt gcattcttca aaaccattcc tgatagagta gccgagggag agtcttgggg    720
ccaagaaggg cccagggtgg gtcaggcgtg tgcactgtgg aacagagctg agaccccggc    780
cccccttgga ctggcacagg gtcctacaga gtcagaggag gcctgagatt tcgaatgggc    840
agtgaatggc ctcttctgcc agccacaggc aggatgctcc ttgatcacgg catcccccgg    900
cggtagtaca gggtgagctt gcaggagggt ctgcaagtgc agacagcagc tggggccaaa    960
gaggtgttag gttcaaaggc tgcgaagaga ataggctact ggaaaaccaa acccaacaga   1020
attcacgtcc aaaaatccac attctccatc gcttctcagc cttttggcta agattaagta   1080
ttaaaaaaaa accaggctct gccaggcgca gtggctcatg cctataatcc cggcactttg   1140
ggagtctgtg gcaggaggat tgcttgaggc caggagtttg agaccagcct gggcaacata   1200
gcgagacccc atctctacaa aagattaaaa attagctgcg tgtagtagca tatgcctttc   1260
aacgtagcta ctcaggaggc tgaggtggga ggatcccttg agccgaggag tttgagtctg   1320
cagtgagcta tgatcgcacc actgcattcc agaccccatc tcgaaaaaaa aaa          1373
```

<210> 3128
<211> 3869
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3871)...(791)
<223> similar to gi3327170 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3128

```
tttttttttt ttctcattaa caaagcagtc aattcccttt atttttaaaa ttttatgtac     60
acatatgaat gatctgtata atgtacattc aatatagaga agctttatat atgtgatagt    120
tgtagagaac atttcagaat gatactcatc ttttacatga catcttgaca tccattttta    180
aatttgtttt gcacaagctc cttgtcattc aatttggtaa aagccagtta tacatactaa    240
tgtgtactgt gagcctttca gaagggttaa tgattgaggg atgccagtga aggggtgcag    300
gggacaaaac ctaataggtc ttgggatggg tgggggggga gggatgggcc acggcaggac    360
tttggatgca gggagagggg gaaaatattc tttcccgggg ggaaaagtga cttagcccaa    420
tttttgttga ctgtagctca accctacagt catgcctagt tcaaaaaaaa aattccaaaa    480
ctaggaagaa agttttgtct ttttgattca cagttttgta aacagatata aaggaacaaa    540
tgtgcttaca tacaccaaga aaaaaaaaat tcttgtgtac ccacttatgt tgatccacag    600
agtgctttct tataatgtga tacaattagg atcactgact ttttttccta aaaatatatt    660
tatagaaaaa ggaataacac tgtcatgaaa ccaggagaaa ggcagtaaga gtttgcttca    720
acgtatcagc tggaggaatg tggacttggc actggccttt cagcgtttat tgtctctcgt    780
gaatatttca agtctgatag ccaaggtcgc ctgcctcatg gtctacagga ggtggcaggt    840
tagacatgac tgatgtagat gtacctgcgg taaggtagcc agcaactcca ggtcctgtga    900
ggtatcctgc tgtttgtgac tcagaaatga acaaatcatg tttctgatct ttgaaggcac    960
tccagactga agaacggcac aggatttcat tcacctgttc tccatactgc aaacttcgag   1020
tcattgcctt gagagcttta acaatctgag ccttagtggc tgctgggctg tccaggtttt   1080
caaggccaat gccttcgagt aattttaaga ggtatggaac caaatctgct ttcagggctt   1140
gtgctactaa ttcactctgc tccttctgaa acattcgatt aattgcttca caggctagac   1200
caacagtatc tgctcgcttt ttcattccat tcatcagtgg gccaatggtc tctaaagatg   1260
ccatggctcg aacacacagc tcattttcag acaaggcatg gataacccga atggcactct   1320
taggaatggc attgttccta tgattcattg cctggataac tttgggaaga tggcccaatg   1380
gcgggacctg atctgccagc tgaggttgtg cgctgaagag acacactgtt gccattgtca   1440
aggtttccag agtttctcca tgaggattgt tcttctctag gagctcagtt aattttttcta   1500
```

```
acagggcaat aagaaattct ctaggctttc ttagaaccca ggctggttgt gcaataaaga  1560
tcctcaagaa gactcctcca acagcaagtt ccccctctgc ttctccaaac accacagcaa  1620
aatcttcagg caacttccag tttgcctcag ggttgtcctg ctgattttta aagtgctcta  1680
gcatcatttc cctaactgtt gtggacactt tatctctgga attatcattc caaattaact  1740
caggattttc atgagttcct tcaaaaaata tgtacagcag cttcaggatt gtctctcata  1800
gcatcccatg aaaacgcttg gtagaaattt cattaacggt aattcgaacc tttggaccta  1860
tcagtttatc tgctgtcatt ttggcaaaaa gttctgctgt ttgggctcga acctgtggat  1920
gtgttgaatt gcagaacata tccagtaaat ggaatcaaag cacccttttgc cattgcttct  1980
ttgattaatt tttgtactcg gatgtccaaa gcataaagag tttcccagaa ccaagctgac  2040
cgacttgatg gcaatgaatg tagaagagcc aataaactgg acaaaaccca ttgattcagc  2100
aatattgttg acacagtctt ggttagatgt cactatattc acaacctctt aaagccaacc  2160
tgctgtactt gaccagctcc atgaaacgcg gagaagagaa aatatacacc tacagtgccc  2220
aatgtcattc actctcagaa cctggattgt attttatgac atttctcaga gcctccaaag  2280
ccatttctac tctcggtaag cgatctccat gttgctctga ctccactttt gccgcgtgtg  2340
tgatggccat gaatgtgtgc aagtattggg cctgcgagcc tatataatcc aagagacttg  2400
cagcaaatgc ttttggaacc tccagttgga aagtaggaac ttcattatac accctaacaa  2460
aaatctcccc tacaataagt tatttggcat gatcactgta gacaaattct gatccataag  2520
ttttgtcaca atcacctttt ttaatcatgt tttcttgttg ggattcaaga aattcaagta  2580
attctgctct tgtagaattg ttccatatca aatatggact ttctgtgttg ctgttaagca  2640
tcttcaaaat ctcagtcaca ctagccacag caagttttct agcaacatag ggtgtcagca  2700
tgccagctaa gcttttcctt atggttggat tttctggagt tgcttgttct tcagccaaat  2760
accctccaag gcgactcaga gcatggacac tcagtttggc aaggctgttt gctacctcct  2820
gctggtttgt ttcttcactt ttctgaatgc cactctcttc tagtgtgtag tcataattaa  2880
acagaaaacc aaggagatac cacaaaattc cagcctgaaa taggtgtgtc tgtagccaga  2940
aatccacagc aaaagaactg acacattcta ccccaagagc agctacgcgg ggaatactct  3000
tgccaaaata tagtacccga cagagatcct tgatgatgct aggcatttcc gtgatcttct  3060
ctcggcattc ctcaaactga gcagccacac tgtagcattt acttatgtat ccacacacct  3120
gtactgacat gtcacttggt ttactagaac gagtcaagac agccacacag cgactaaatg  3180
cctcttgtaa cacctctagt ccattctctc ttctgagctc ttcagcattg agggctgaac  3240
agttgacagt atggaaagct agctctgtag ccgcaggcaa caatggtgat tcttttgaga  3300
aaaggaggtc atctgaagtt tccattgtta tagtccgaat aagcatgggg tatcctgcat  3360
atttataagg ctgtaaatct tctttatgac ggttgaagag gatgctctgt gtttttagaa  3420
ttaaaattat attctctgga tctggcccat ccactatttt tgctgatttg gtacataaaa  3480
attcatatgc tttatttact ttttcaaaca tgtccctccc ttctggattc ttatcagggt  3540
ggtacttttg tgcaagtctg aagtaagctt tcctaatctt gctctcatca tgcggtccct  3600
gtccttgagg cagattaagc acttcataag catcatctat tgacatcata ggtggcttct  3660
tttctacttc tttcttccag gcatcaaggg tatcttttag aagcttaacc gggtctttaa  3720
ttggccaatc tggaaaccgg agtgtatcac acagttgttt gaggtaataa atattacaaa  3780
atagttcatt ttcgagttgt ggatagttga ttataggaat ggggcaatac tgataaagtg  3840
ctcttgtgtt actctgaaga cgaggtgtg                                    3869
```

<210> 3129
<211> 545
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(545)
<223> similar to gil698455 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

1916

<400> 3129
```
cagaaacatg gctttaccag tatgaccctc aagacaaaat acaaaacaat ggctaccaag      60
aggtggaagt ggcccagtca cagcaagagc agattgatca agagcaaagg tcatggtaac     120
agttttttgg atcctcaagt cattttgctt gttgactttt tggagggcca aataaagata     180
tcatctgctt attatgagag tgtttcgaga gaaatccaaa gcttagcaga gaaacgcctg     240
ggaaagcttc accagagggt cttccaccgt gacagttccc ctgcgcattc ctctcataaa     300
gcaagggcag tttagctaga atttctatca aaaatcatta ggtatccatc tcccagtcct     360
gatttggctc cttctgactt ctttttgttt cccaatctta aaaaaatccc tgaagggcac     420
ctgttttct tcagctaata aaaaagacat ggttaatttc ccaggaccct cagttctta      480
aggatagact gaatggctgg tatcattgct tgaacttaat ggagcttatg ttgggaaaca     540
aaaat                                                                  545
```

<210> 3130
<211> 1350
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1251)...(982)
<223> similar to gi3002527 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3130
```
ttaaatttgt agattaattt gagaatttac atctgtagaa cattctagga acgtgctatc      60
tcatgtcatg tattcatttc ttggtaatgt ctttcagaag agctttagtg tttccatata     120
tagatcttat acatcttttg ttagataaaa gatctttgta ttttttgttcc taaattcttc     180
atacatttgt attgccattg taaatgggat ctttcttcca ttttctaatt agttattggt     240
ggtacatggg aaaagtattt gaggtttgtg tgctgatttc ttgattttgt agatagccac     300
tgtattgaat tctcattact tccagtaaaa tcttagttga ttctcttagg cttcttttggc     360
taacatttttt catttaatat gcaaataatg atagtttgt ctcttccttt ccaatacttc     420
tactcttttcc ttcctttccc ttttcctttt tccttttcctt tccttttcctt ttttttccct      480
tctcagggcc ttgttgtcac ccaggctgga gagcaatggt gtgacctagc tcactgtagc     540
atcaaactcc tgggcttagg ggatcctcct gcctcagctt cctgagtggc tgggactaca     600
ggcaggcagc taatttaaaa aatgtgtttg tagagacaag gtcttgctat gttgcccagg     660
ctagttttcc tgccacttca gaggaaggac tcaggtttcc ttttctcct acttttaaga     720
gttttttatta ggaattatct gttgaatgtt atctaaaaca gtcaataaaa tgtattaagt     780
accagctgca tgcaagaccc taagttagat acagtcagcc ctcttcatca gcaggtccac     840
atcttcagat tcaactagat aaggctgaat atttgaagaa agaaacaata aaaatacaat     900
tagaaagtac agtataacaa ctgttgtcat tatacaatat ctatacattt tattagtgat     960
gacctaaagt acatgggacc aggcacggtg actcacactt gtaatcccaa cactttggga    1020
ggccaacctg ggcagcatag tgagaccttg tctttaataa aaataaaaat aaaaaaatta    1080
gccagtgtgg tggtatgcac ctgtagtccc agctactcaa gaggctgagg tgggcagatc    1140
actggagccc aggaggttgc ggctgcagtg agctgtgatt gtgacactgc tctccagcct    1200
gagtgacaga gggtgatcct gtctctaagt aagtaaataa ataaagtata tgggggggggt    1260
gtgttggtta tatgcagaca ctgcaccatt atacgtaagg gattgagcat ccacagattc    1320
tggtatggtg tggggggcgat atcctagaac                                     1350
```
```
1917
```

```
<210> 3131
<211> 1863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1864)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1660)...(416)
<223> similar to gi699196 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


      <400> 3131
tttttttttgt ttcctccagt gtgatacttt atttgttttt ttgtgggaaa cctctgggac    60
ctgccctgga gagcctggca actgcagggc actgtggggc tgggaggtgc ctcagcacgt   120
ggggccaggg gctggcatgc accgcgctgc acagatgagg tcggtggtga ccaggcagag   180
gtgacaccag ggacggtctc cttgagctgc aacaactggc ccgaggctgg ggaccccaca   240
tggtgatttc atcccaaaca gttcttgatt ctacgtgacc tgatttgggg ggttcaggtt   300
taagggaggc caggtcttgg acgggccccc gtggttctcg gtgtgaaggg gacgtctgct   360
gctccccacc agacccgcag tcccagtctg ccgggtcatg aggggtggaa gtgcctgatg   420
agcgccttct tgtcaatctt gcccatctgg ttccgcggga tctcctccac cagcaccagc   480
tccgagggca ccgcgtacgg ggccaggaca tttctggccc actctttgag ctccctgtgg   540
gacagtgagt gtccttctcg gagggtcacc acagcagtga cccgctggcc ccatgtcata   600
tccggaactc caatcacagc cacatctgtg atgctggggt gggccagcag gtgccactcc   660
acctccaggg cgctgacctt gtagcctcca gtcttgatga tgtccactga ggtccggcct   720
cggatccagt actggccatc cttaaacacc acggtgtccc ctgtcttaaa ccagccatcc   780
agggtgaatg cactcttagt ttcttctggt ttattccagt attctcgaaa cacggagggt   840
cccctcacca gcagctcccc ctccttttct tcaaaccctg gggtcacctt ggtccccctc   900
tcgtctccct ctgcgtggat ggtgtaggag caggcttccc tctgtgggtt ttctgagaca   960
atgcgcacct gtactccagg cagtggggtc cccacggaac ctggcaggcg catggcagtg  1020
gtcaggggcc cggacagagc catgccgatc tcggtcatgc cataccgctc cagcagggtg  1080
tggcccgtga tgttcttcca cttctccagc actgggaggg gcagggcagc tgagcctgag  1140
accatcagcc taatttttc ttcacaaact gcacgcaaga aatcctgggc gtgcggctgg  1200
gtaaaatgcc tgtcgtagta ctccatcagc ttggtgtata ttgtaggcac tgccataaag  1260
acattgatcc gcggcgtttc agaacttaag aacttttccc aaacctgctg agggctgaac  1320
tcaggcatca tcacacaggt ggctcccacc cagagaggac agagcagcgc gttgaccaca  1380
ccatggacgt ggtgcagcgg gagcacgtgg aggatcacgt cgtctttggt ccatgcccac  1440
ttgtggacca gcccggtcac cacagccctg atgttttggt gcgtgctcag cacgcccttg  1500
ggcctccccg tggtcccact ggtgtagatg atcatggcgc ccttgttcct ccatccctgc  1560
tctgggaccg ggacctctgc cggttcctct actgctccag tgtagatggc tggtgtgagc  1620
ggcagcagcg ggaccccag cttcctgacc accgggctca ggagctccag gtactcctgg  1680
ctggcaagga ccacagagct ctgggagtcg cagatgacat actccagctg gccgcggga  1740
tgcttcctgt agaggggtac tgccacaccg ccgctcatcc atgaggccct ctgggccacg  1800
acgtaggagg cgtggttagc tcataggaag gaggaatgcc nctcnncagg gtaggctatc  1860
gag                                                               1863
```

<210> 3132
<211> 1122
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(1091)
<223> similar to gi32015 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3132
```
ggccagagca gctgatcaca ggaaaggagg atgcagccaa caactatgcc cggggccact      60
acacggtggg caaggagagc attgacctgg tgctggaccg catacggaag ctgacagatg     120
cttgctctgg cctgcagggc ttcctgattt tccacagttt tggtgggggc actggctccg     180
gcttcacttc tctgctgatg gaacgcctct ccctggatta tggcaagaaa tccaagctgg     240
agtttgccat ctacccagcc ccccaggtct ctactgcagt ggtggagccc tacaactcca     300
tcctgaccac ccacaccaca ctggaacatt cagattgtgc tttcatggtg gacaacgaag     360
ccatctatga catctgccgc aggaaccttg acattgagcg ccctacctat accaacctca     420
accgcctcat cagtcagatt gtgtcctcaa tcactgcttc tctccgcttt gacggggccc     480
tcaatgtgga cctcactgag ttccagacca acctggtgcc ctaccccgc atccacttcc     540
cgctggtcac ctacgcgccc atcatctctg ccgagaaagc ctatcacgaa cagctctctg     600
tggccgagat aaccagctcc tgctttgagc ccaacagcca gatggtgaag tgcgacccga     660
gacatggcaa gtacatggcc tgctgcatgc tctaccgggg cgacgtggtg cccaaggatg     720
tgaatgtcgc tattgctgcc atcaagacca agaggaccat ccagtttgta gactggtgtc     780
ccacaggctt caaggtgggc atcaactacc agcccccgac cgtggtcccc gggggagacc     840
tggccaaggt gcagcgggcc gtctgcatgc tcagcaacac cacggccatt gcggaggcct     900
gggcccgcct cgaccacaag ttcgacctca tgtacgccaa gcgggccttt gtgcattggt     960
atgtgggaga ggggatggaa gaaggagaat tttcttgaag gccaggggaa gacttagctt    1020
gccctggaag aaggattatg aagaagtggg gactgattcg tttgaagaag aaaatgaagg    1080
ggaggaattt taaatatata ccttcccctt gaaaaaaaaa at                        1122
```


<210> 3133
<211> 1850
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1338)...(1675)
<223> similar to gi1872200 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3133
```
tttttttttt ttctccgtac aagtatttta tttccattac aatagtgcca cgccaaaact    60
acagtagctc aaaacataat acaaaaaata gattcccagc tcccaacccc acgtccacgc   120
acccacagag aagccagccc tatggctccc caggcctaag ggagggggtc tcacttcatt   180
ttccttaaag ctctggagcg ggtagtggca gtggcagggg cttccacccc tgctgggcct   240
gagccctctt cttccccaac cccctgccgg ccccggcaga cctgagccat gagtgtggtc   300
tccattccct cgggctgcac ccccagccct aggacacctg cctctgtcca gggaggggt    360
ccaagcccat ggtgctggtg ctgacactac aggaccacca ccctccacgc ggaaggcagg   420
agggtcgggg gaggggaggc agaggggaca ccatggctgg gagaagcccg cctctatgtg   480
gcaaggggac tgcggctggc ttctgcttca gctacttctc gggttcctgt ctcctctgca   540
gagctaccag gactgctgcg tgctgggacc aggacctcca tctggaatcc actctcgata   600
ccctgcacca gcttggaggc agatcccaag gtggcagggg tgtccctgtg ccgtctgctt   660
cctctcgggc aggaggattc cagcttcccg ggtgagggga gagcactgtc caggcagggc  .720
tgggccagga ggcctgggct gctgaggcgg gaaagcggtg gctgtggagg gcacgtgctg   780
cccccacctc cgtctcgggg cctggcttcc ccactggatg gcagaggccg ctccaggtgc   840
ttccacttgg tggcgcccat gagtctgcta ctggagaagc tgtggtctca gggaggagac   900
agacaccaca ggccagactg ggtggaggaa tcttcccctc acaatgtccc ctggctaaaa   960
gcatccatct agctgcaagt actatcttga ttcaacccag gggccgacaa tggactgcag  1020
cccagggtaa gtccagcagt tttgcagtct tccgatgccc tgtgccatgg acctgccggc  1080
cagagctcct gggctcccgt ggaggttagc cctgcaggca ccggggaaat ggggctatgg  1140
cctgtgcttc agtcaggaca cctgggggct gcactgcgga ggccaagggc atctaggagc  1200
aggggctgtc tccttggggt ggagactggc ggctgcagcc tcagataagg cactagagga  1260
ctggactggt cctgggagcc aggcccagcc atgtggtgga tgacggtgct cagagagagg  1320
atttgggtcc tgcgggaggt gacagctgtt tctcttttct tttttttggg acggagtctc  1380
cctctgtcac ccaggctgga gtgcagtggc gcaatctcag ctcactgcaa cctctgcctc  1440
ctgagctcaa gagattctct tgcctcagcc tcccgagtaa ctgggattac aggtgcccac  1500
caccactccc ggctaatttt tgtaattttt tttagtagag atggggtttc accacgttgg  1560
ccaggctggt ctcaaactcc tgacctcagg tgatccgccc acctcaacct cccaaagtgc  1620
tgggattaca ggagtgagcc accgggccca gcctgttttc tcttttctcc tttccctggg  1680
gaagagggtt ggccggacag accctggtgt gggctgggat gggggactgc tgcgtgctgg  1740
gaccaggacc tccatctgga atccactctc gatacccctgc accagcttgg aggcagatca  1800
caaggtggca ggggtgtcct gtgccgtctg cttcctctcg ggcaggagga             1850
```

<400> 3134

<210> 3134
<211> 3458
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3459)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2)...(870)
<223> similar to gi2244815 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3134

1920

```
ggtttacacg tacctccgcc tcatcgtgga ccaccatggg actgcccagc tccaggccct      60
gcgacagaag gaagtagact tctgcatctc actgcttcgg gaacggttca tggaatgtct     120
gatgattggt cgggatctcg taagactact tcagaatgtt gctaggatac cagaatttga     180
actgctttgg aaagatatta tccataatcc tcaggccttg agtcctcagt tcacaggtat     240
cctacagctt cttcagtcaa gaacatcccg aaaattccta gcatgtcgtc taaccccgga     300
catggagact aaactcctct tcatgacatc ccgggtgcga tttggtcaac aaaagcgata     360
ccaagattgg ttccagcgcc agtacctgtc aactccagat agtcagtctc tgcgctgtga     420
cctcattcgc tacatctgtg gggtagtcca cccttctaat gaagtactga gttcagatat     480
cttgccccgg tgggccatca ttggttggct cctgacaacg tgcacgtcaa atgtcgctgc     540
ctccaatgcc aagctggctt tgtttttatga ctggctgttc tttagtccag acaaggatag     600
cattatgaac atagaaccag ccatcctggt catgcaccac tccatgaagc cccacccagc     660
catcactgcc acactcctgg acttcatgtg ccgcatcatt cccaacttct atccaccatt     720
ggagggccac gtgcggcagg gtgtcttttc ctccctcaac cacattgtgg agaaacgggt     780
cttggcgtgt aaaaagtatt ggctctacct cagactgctg ggcatatgtc ttcttggctc     840
ttagaggaat ttctctcctg ccatcgtatt acaaagacac ctagctcccc tgtttgacaa     900
ccctaagttg gataaggagc tgcgggcaat gctgagagag aagtttcctg agttctgcag     960
ctcaccctcc ccacctgtgg aagtcaaaat tgaggagcca gtttccatgg agatggacaa    1020
ccatatgtcg gataaggatg agagttgcta tgacaatgca gaggcagcct tcagtgacga    1080
tgaagaggat ctcaacagca aaggaaagaa gagggagttt cgcttccacc ctatcaagga    1140
gacagttgtg gaggagccag ttgatatcac cccttacctt gaccagttgg atgagtccct    1200
gagggacaaa gtactccagc tacagaaggg gagtgatacg gaggcccagt gtgaggtcat    1260
gcaggaaatt gtggaccagg tcctggagga agactttgac tcggagcagc tgtctgtcct    1320
tgcttcctgc ctacaggagc tcttcaaggc ccactttcga ggggaggtcc tgcctgagga    1380
gattactgag gagtccctgg aggagtctgt aggaaagcct ctgtacctaa tatttaggaa    1440
cctatgtcag atgcaggaag acaacagcag cttctctcta cttctagacc ttctctccga    1500
gctatatcag aagcagccca agattggcta ccacctgctc tactacctga gggccagcaa    1560
agccgccgca gggaagatga acctgtacga gtcatttgcc caggctaccc agctgggcga    1620
tctgcacacc tgcctgatga tggacatgaa ggcctgccag gaggacgatg tgcggctcct    1680
gtgccacctc acgccctcca tctacacaga gtttccagat gaaaccttga ggagcggaga    1740
gctgctgaac atgatcgtgg ctgttattga ctctgcacag ctccaggagc tggtctgcca    1800
cgtgatgatg ggtaacctgg ttatgtttcg aaaagactca gttctcaaca tactcattca    1860
gagcctagac tgggagacct ttgagcagta ttgtgcctgg cagctctttc tggcccacaa    1920
tattccctg gagaccataa tccccatcct gcagcacctc aaatacaagg agcacccaga    1980
ggccctgtcc tgcctactgc ttcaactccg aagagaaaag cccagcgagg agatggtgaa    2040
gatggtgctg agccggccct gccatcctga cgaccagttc accaccagca tcctgcggca    2100
ctggtgcatg aaacatgacg agctgctggc cgagcacatc aagtccctgc tcatcaagaa    2160
caacagcctg cctcgcaaga gacagagcct gaggagctct agcagcaagc tggcccagct    2220
gactctggag cagatcctgg agcacttgga caatctgcgg ctcaacctga ccaacaccaa    2280
gcagaacttt tttagccaga cgccaattct ccaggcgctg cagcatgtcc aagcgagctg    2340
tgacgaagcc cacaagatga aattcagtga tctcttctcc ctggcggagg aatatgagga    2400
ctcttccacc aagccaccca agagccggcg aaaagcagct ctgtccagcc ctcgaagtcg    2460
aaagaatgcc acacagcccc ccaatgccga aggaaggagt cggggttcca gcagtgtttt    2520
caggaaggag ggaaggacac ggaaaccgaa gccttaccaa gcgggaaacg gaaaagggtc    2580
ctctgcagtg ggctctgaca gtgactgagg ccctgcattc cccatcccac ccccggctgg    2640
actgccctct ccttcttggt gattcaaagg ttaatagagg ctgaggagat tgcagggaa    2700
acacccttgc tgcatcccca agctccccg gtggaaggag gagctttctc tctggctga    2760
gtttgagaag ctgccatgca cgccctagcc ccttccctcc tcctggggcc tccagcccct    2820
cacactgctg ttcccagtga tatttgggat ctgactgaag ccagaggctc tgtaaaatca    2880
gaccatagtg gaagtcctca gcccctggc cccttccgca atctcctccc ccagtctccc    2940
aaagagccat ttcaacagag aagggaaatg acaaaggggc agctggccag ataagctagg    3000
atgagagcag agactcagtg tgtgggtgtc ccttcctgct tcccccttca ggtcttggtt    3060
tgttctgaag ggacgtttta tagtcactat ccacatgcca gtgtgaaatg ggcatctatg    3120
acgtggtcag ggtgtccatt cctaatcatg gggggngggg gggnccccaa agaatgccac    3180
cnaagcattc agaaaggagt ctgaaagggt ggccacagcc cacgatggt gtgccctggg    3240
aggcttaggt tggtcttgag gttgggcacc tcaatctaca ccagagcccc aggggagtcc    3300
cagagggcaa gttttcacag aattgtcaaa tgatcccatt tccttgagtc tgtttttttt    3360
ttttgttttt ttttgttttt ttttggcag agataatcgt gttcttaaaa ttgttttttt    3420
```

1921

aaatgacaat aaaacaagcc agaatgtcaa aaaaaaaa

```
          <210> 3135
          <211> 1610
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (1)...(1611)
          <223> n = a,t,c or g

          <220>
          <221> misc_feature
          <222> (1610)...(418)
          <223> similar to gi2854198 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
          <400> 3135
tttcaccatt gtgattttgt ttattttttc tattaaaaac aaaaagtcac acattcaaca    60
aggtgtgccg tgtgggtctc tcagccttgc ccctcctgct cctctacgct gcctcaggcc   120
cccagccctg tggcttccac ctcagctcta gaagcctgct ccctctgcag ggggtggtgg   180
tgtcttccca gccctgtccc atgtgtccct ccacccattt tcctgcattc tgtctgtcct   240
tttcctcctt ggagcctggg ccagctcaag gtgggcacgg gggcccagac agtactctcc   300
agttctgggg cccccccgagt gaggagggaa cgggaagtcg gtgccttggt ttcagctgat   360
ttggggggaa atgccttaat ttcactctcc tcccttctcc agcctcaggg gaggatctgg   420
aggatccact actgtcttta agatgcagag tggaggggag gtgggcaccc accctgcgat   480
tctccaccct ttccccttct ttcgtcctca ccatctctgc agacccctct cctcctcctt   540
cctcttggnc tccacaactg aggggaggct ggtgcccaag ctgtggcctg cagtctgtga   600
ggagggctgt cttgcctcac actcctcaca gcctacttcc ccttccccgg ggctgagagg   660
gtgaaagtgt gtggggaagg agaggactgg tttcctgggt tctcaggggc caggaggagt   720
aacagaacca ggtctgctcc ccaccttact cggatggcct ccctgcccct ctgctggcac   780
agcctgggca aggggagaag gtggtccctg cagaggggct ccaggctggt gagagccccc   840
ctgctgtcag gaccagattt tcccagccat ccagcatgct gcggggagaa ggggcagagg   900
ctcacctccc tcctggggcc ttttgttttg gatcctgggg atggtgagaa tggaggttct   960
agaaggggta aggccagaac ccagggatcc aggagtcggc tctcagctgg agcttccata  1020
ccttctgggc tccctttgct gaccaccagc ccaagggagc taagaccagg aggggctgg  1080
gcgctgtccc ttctcttttcc caggagccct gccaggggct gtgggcctac aaggcttcca  1140
ggggatgcca tccagcctgt aggaaaccaa agatgggaag tggctcctag ggggctgtac  1200
tctctttcct cctcctcccc agtaccacat atactttctc tccttctatc tccagggccc  1260
caccaatctg tttacatatt tattatccta tggggcctg agcaggattg agggagccag  1320
gggaggggca ggagtcccag caccatcggt tcatagtggg cttgtgtgtt tgttttagat  1380
cctcctggga gatggggatg gggccaggct cagtgtacta ggcctctctg tgctgagccc  1440
caggctcccg gccccttacc cactctttcc ctgtggctgg tctggttctc atgtaaaccc  1500
actccttgct ttgtctccct ggatatggat ttcagttaag tattttgtaa cccgttacac  1560
tgtgtgtcct tgtgtaaata aacttgtttc tggcagtgcc aaaaaaaaaa           1610
```

<210> 3136
<211> 2208
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1274)...(173)
<223> similar to gi3395416 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3136
```
caaacgctga gtgactcggg gccggacagt tcataaataa ttgattcctt tccccactaa     60
agcagtcgag gagatttgta atccactttt tagtgcaaca agagctccat gttatgcttg    120
taataaatta tttacacggg agctgggctg gtgtgcagtg gcaggtcccg tcagaagaga    180
tgaggctcct gggacaggtc agcgtcaggg gcagcctgct gtctgctctg gagggcggcg    240
ctcacctctg ggtcgcagtc cccacgatca gccagcagct gtgagagagg agcaggtcct    300
cagcccatgc cgcccactag gcctcagacc acaggggagg ggctctggca gaaatagtcg    360
agttgtattg ccagccaggc aggcacatgg cccaggcagc tgtcaattct catgtccccc    420
acgtggccca aggtgggcat cttgacgtta cctctgccac gtgtgagaag ctcttttcg    480
ggcaccgagg tattaactgc agcagaaaaa gacgagcttt tgttatcagt·tccacggggt    540
tgccctagag agaaaacagg caaactcaca ggttagaaga catacagaaa cagggctggt    600
gtgtccccca tagtctgcat gctgtgccgg aacattcttt ggcagaagga gcctccggct    660
ggggggagct cccctggagg tgggactggc ccttgcacct gcctgaccct tgagctccag    720
gctcctgcca gctggaggtg aaactgtgct tgtatcccca gccacgaaga gctggaccag    780
cttcaagtac atgtccacag caacatgcag gaaggcctct tccctgatgg ccgcgtcttc    840
atggaagtag gagagaagac tagaggtaaa gacatagtga caaatggcta cagactgctg    900
gaaaggtagc aggtgatgcc aagggatact gctcatctgt ggagcagagg cacagacaac    960
ccttcccatc tggcgggacc cagaggtgct gagatggggg tctgggaaac actgcccagc   1020
cctgaccagc cctgtgggtg gaggtacctg taaaaagcga aaggcagcag cctggtgtgc·   1080
tgatccgggg ccacacggag gaggagccgc cccagcctga ggtctgcaac accaagaagt   1140
ggctcaggca actctggaca tctctgccta ttatcagtgc tggggacacc cctgggggtc   1200
gggacgtgta ccctgggagg cctggctgtg gggatagtgt ggggcgaaca gcctgagctg   1260
aggataccca ggtacctgtc agcagctggg agaggatggg ggggtcgacc tcttgcagga   1320
gggtgggtgt ggtgcagaga gaggcagtcc ccatgatagg cccattggtc ctggggttga   1380
ccagtgagcc agtaaattat cttattgctt taaacaagtt tgtgcttaat ctgtcccaac   1440
taaaatggag cttataaact tacttagcaa ggaacctcaa ggagggctcg ttcttaacca   1500
tttgcaagtt gcctctgaaa agagcggccc tccgcatttg tgcctcagca gcgtgtttct   1560
taccactctc tgtcaactga aagagtgcca gccaggatat cttcctcttc tctaaacact   1620
cgaggattgc tgcacaaacg tggaaagcct ttggcaggtc tgtggtgctc tgtaaaccgc   1680
aggagaccaa ccctgagaat ggccgacctg gtgctcccat gggtaggagg gtacagccct   1740
cagcacagaa gagggcattt cctctttgct tattgtaagt cttaaaactg gtgacagttt   1800
tacctataga aggtaatact gggcctctgg acagaagagg ctcaggtagg aggccaggga   1860
cttcgagcac ccacaccaag gctgctgcac cacgtcctca aataagacat taaaagaaag   1920
gcccacaggc cggatgcagt ggctcatgcc tgtaatccca cactttggg aggccgaggt   1980
cggcggatca ctgaggccag ttcaagacca gcctggcaat atggtgaaac cccgtctcta   2040
ctaaaaatac aaaaattagc cgggtgtgac agactcacgc ctgtaatccc agctactcgg   2100
gaggctgatg caggagaatt gcttgaaccc aggaggctga ggttgcagtg agctgagatc   2160
acaccactgc actccagcct gggtgacaga gtgagacccc catctcaa             2208
```

1923

<210> 3137
<211> 2668
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2643)...(1592)
<223> similar to gi3924708 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3137
ttccatttaa ggagctttct gcatccactt tatttagcca gagagggaag gggttgacat   60
aaacgaaaaa gtggatcaaa tagtcaagaa catgatgggc gcggcaatga actgaaccac   120
ttttgctaag tgacagaaaa atattctaat attaaggatt attttacaac tctatggaag   180
taatgcagtg atgcatcttg catctgtttt gtcttgatga caaaacgcac tcttagagtc   240
acaagatcct gccttgtgtt agttataaac aaaaatatat ttatatatat atatttatgt   300
aactactatg tgctttaaag aaaattactg tatgattcag cagggttttt tcattctttc   360
tatcgccatg ctgacgtgaa tggcttctta gacaggaatc agcaatgaaa tgggtgttta   420
gtactgaaaa ggcataaaat taaaaataat catatgttta aaatccctta acattttgt   480
ttcaaaaatg attaaggaac tcttcatact gtttcctttt gtttccatca gcccagagca   540
actgtggttt catgggactt aacagttggg gattggaggt aaggcttcca taaagcataa   600
atcagatgtt ttcatgctga ggcaggaaaa cagaaagccc cgtttgccac cccctcttcc   660
caaatcctta gctaattgtt cggaaatttt gtcacagctc atagaaaggt cattcattac   720
aaaggaagag gcagacatgg tttgaacctc ctgtacggat aaaaagattc gttctgtaaa   780
gtgatgaact tgttggtaca gatggatcta gaccagaaaa acaacatcct tttgccacac   840
atctgttttg aaaatgtaga aaatctctta ttttgtgttt gttctcactc ttgcatgggc   900
tgtttttctt agcaatcttg agacattcat cattgctctt ttgagtgaaa gggttcaggc   960
tttggaaaac agttatcttt gagacatcag agaacatttg aaccaaaggt gtcgatccct 1020
catgaactaa agctttatta tgattttttt tttctgatcc ctttgcaacc ctgcacctaa 1080
gccaaaagca ttataatctt gtcatacttc agataagtcc acgggagatg ttccgagtga 1140
actatagatg acattccact agggaattct atgttcagtg taaatggtat cttgtataag 1200
ttttagtttt ttgtttaccc tttgtttcct gggctgagct tgtccagaaa tcttgtcttc 1260
ttcaggctac agcagcttag agcttgtttg tgtgtgtgtt tgtttgtttg tcttaaaggt 1320
ataggcaaaa ttttagtctt aacacctgta aaccagtact ggtgttgttc tgtcctagaa 1380
attttagcac tgctctgata caataaagcc ttctttctct ccaactggtt caacttcagc 1440
ataggcagga tgtccagagc ctcttctaaa cttcatcgca ggccatctgc ttgggcgtct 1500
ctcaataaag aagatgctgg ctgctgatgt tgggtggtga tacatataga ctgtcacaag 1560
aatggctgtg gctacaatga ggaccaggat gaggattcca acgatgaggc cagcgtggag 1620
ggttcccccct ttcttctcag ctgcactgtc atctgtagaa gctccattat cttttagatg 1680
tagtgctatc ttggtatcat cttctgtagg gaggctggtg ggaaactgag aagtcactgc 1740
tcttctggtg gtagttagga ccctgaactg ggtggttgtc gctcctatgg ttgtggtggt 1800
tcgagaagaa gtttccactg gttctgtatt ctcacacatc ttctcttttg actcttcagg 1860
gcatccactg tccacccagt cctgccgatg acgatcaaat ccactggaac atctttgaag 1920
tttactacac caactgcagt tgaagccaat ctgagaagat acacaggggc cacatctgtt 1980
aaactggagg catgtgggta atggggtcat ctccacagcc gaaatgttgg taatttttga 2040
catttgtagc tctactcggt ggtattcata aattgttctt cttcgaacat gggaatttg   2100
ttggatcctg tggacaacga caaatgcatc ggacagtccg actttcactg gatgattggt 2160
tgaacttatc tgtgtgacca agacaggaat ttctttgtat ccaaagatga ttcgtccatc 2220
catgagcagg gttgcctgga atgtgaagct tcccaggtta taattatcct ggagatgtac 2280
atggtcccac tggaccacaa gtgctgtgcc attatcaaaa tatctgacag ttgaatttct 2340
ggatacactg ggatcgaaat ttgccattaa aggtgctatg tactgtgtgg ctgttagcat 2400
tcgatgtacg acttctccag tgtatatgaa accccggtt gccacagtga tttcacgtag 2460

```
gaagtggcca taaaatggaa aatcgaagga cagattcact cttgcagctt gccgatgagt    2520
attggacaat attccatgaa tcttcacttt atcttttcc atttggtcta tgttcaccca     2580
taaatcccgg ctggcagaat cagatggacc atatattcga gatatatagt aattgtggtc    2640
tgtacggacg cgtgggcgga cgcgtggg                                        2668
```

```
<210> 3138
<211> 655
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (650)...(326)
<223> similar to gi339776 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
<400> 3138
gtggaggaac tcatactgtc ttataactca gtattttaaa ccgataacac tgattgcata     60
aacaaacaag caaacaaaat gaaaacttat gcaaatgtta actttgtttc cctgcttttt    120
aactctttgt tgtttctctt tatatcttac tgtaccatgt cttgaaaagt tgttgtagct    180
actattttg gttggttcat cattttgtct ttccacttaa gagtagttta cacaccacaa     240
ttacagtgtt ataatattct gtgtactttc tattactggt gaattttgta ccttcagacg    300
atatcttact gctcattaat gtcttctttt agatggaaat aaagtattta gtatttcttg    360
tcagacaggt ctggtgttga tgaaatccct cagcttttgt ctgggaaagt atttctcctt    420
cgtgtttgaa ggatattttt gctggatgta ctattctagg gtaaaagttt tcttccttca    480
gcacttgaaa catgtcatga cactctctcc tgacctgtaa ggattctagt gacaagtcta    540
ctgccagata tattggaacc ccattatatg ttatttgttt cttttctctt gctgctttta    600
gggtcctttc tttatccttg atgtttggca gtttgattat taaatgcctt gagat         655
```

```
<210> 3139
<211> 1549
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1549)...(1173)
<223> similar to gi3002527 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
<400> 3139
ccaggcccct gccccgtgca ctccctgagg tcacagggcc ctgcccagcc gcccactgtg     60
cctcgtggcc atggcctgct cctggcccta gtctgacttg tccctgcccc caaccctctc    120
```

```
cccagctcag ctcccactgg acacccttca cggttcccaa ggccagccag ctgcagcagt    180
gacgcctgga aggacatctg gtggtcctta ggggagtggc ccctcctgag ccctgcgagc    240
agcgtccttt tcctcttccc tcaggcagcg gctgtgtgaa ccgctggctg ctgttgtgcc    300
tcatctctgg gcacattgcc tgcttccccc cagcgccggc ttctctcctc agagcgcctg    360
tcactccatc cccggcaggg agggaccgtc agctcacaag gccctctttg tttcctgctc    420
ccagacataa gcccaagggg cccctgcacc caagggaccc tgtccctcgg tggcctcccc    480
aggcccctgg acacgacagt tctcctcagg caggtgggct ttgtggtcct cgccgcccct    540
ggccacatcg ccctctcctc ttacacctgg tgaccttcga atgtttcaga gcgcagggcc    600
gttctccctc gtgtcctctg gacccacccg ccccttcctg ccctgtttgc gcagggacat    660
cacccacatg ccccagctct cggaccctgc agctctgtgt cccaggccac agcaaaggtc    720
tgttgaaccc ctccctccat tcccagttat ctgggtcctc tggattcttc tgtttcttga    780
atcaggctct gctttccccc tagccactac aggcagcctc tgacagggcc gctttacttg    840
cattctgcag caattacatg tgtccttttg atccttgccc aacttcccct ccctctccca    900
gctcctggcc cctggcccag ggccctctt gctgtttta cctctgttcc ttggggccta    960
gtacccagca agcacccaaa tggggaggt tttgggatga gaggaggaaa cgtgtatacc   1020
tgtaacatct ggtggctctt cccccagaag tttgtgttca tacataattg ttttccacgc   1080
tggatcataa tgtgacgtgc agttctgccc tgtgctgggg agccacatga agcttcccct   1140
ggctaacttg ctaccccgca gcaatcccag tgtggctgtc tgcttgctaa aaaatggatc   1200
tgtgctcatc tgtattgatg tccttggagt tctacaagtg gaacttaagt gtcaaaaaga   1260
atatgtggtt tttagctgag cgtggtggct cacacctgta atcccaggac tttgggaggc   1320
tgaggcagga ggattacaag gtcaggagtt cgggactagc ctgtccaaca tggtgaaacc   1380
ctgtctttac taaaaatgca aaaattattc tgggtgtggt ggcgggcatc tgtaatccca   1440
gctatttggg aggctgaggc aggagaatcg tttgaacccg ggaggcggag gttgtagtga   1500
gctgagatct caacactgca ctacagcctg ggcgacagag caagactcc              1549
```

<210> 3140
<211> 725
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (44)...(629)
<223> similar to gi470322 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3140
```
cccaaccgga aaaaggttaa caccctgtaa atacacaatc tctcctccat ttcaccatcc     60
tcctgtttag accatcccca ctgccctatc tataccacca ccctgtctac accagcacca    120
ctaccccatg tataccacca ccccgtctac ataatccacc cgtgtacacc acaatgttcc    180
ctttgtctgc accgtcctcc tgtctacact ggcaccactg ccccagctat accaccaccc    240
cgtctacata atccacccgt gtacaccaca atgtcccctt cgtctgcacc gtcctcctgt    300
ctacactggc accactgccc catctatacc accaccgtc tatacaatcc acccatctgt    360
ctacaccatc gcctctcctc tgtctacacc atccttctgt caacaccggc accactgccg    420
tatctatatc cacccatcta caccatcacc tccctgtgt ctacaccatc ctcccatcca    480
```

```
caccagcacc accaccccac ctacaccatc ccaccatcta cgccattgcc aaatctacac    540
agacgacctc actcccatcc acgccttcac acgcacaccc gtccacacca ccatctcccc    600
cgtgtccgca cggcggcccc gctccatcgg cccgagaaca gcgacggtgg ctttgtccca    660
cgcgtcgggt ctggcccggn gtgcccgagg agctcaggga ccgtgtagcc cggtgtgcgg    720
cccct                                                                725
```

```
<210> 3141
<211> 1834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (161)...(440)
<223> similar to gi1742787 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
<400> 3141
ttgcagtgag ccaagatcac accactgcac ttcagcctgg gcgacagggc aagactgtct     60
cggaaaaata aaagaaagaa gatgctgata tgctacaaca cggatgaacc tggaggacgt    120
ggtgcagtga aataagctgg tcacagagag acaaatcctg ggtgatccca cttacatgag    180
acaggccgac ggtcgcaagg tcctacggtc aagcatccgg gagtttctat gcagcgaagc    240
catgttccac ctggggagtcc ccaccacacg ggccggcgcc tgcgtcacgt ccgagtccac    300
ggtggtgcgc gacgtgttct atgatggttt ggatcctttg agatttttaa gtctgcagat    360
gagcacacag ggcgtgcagg ccccagcgtg gggaggaacg acattcgagt gcagctgctc    420
gactatgtca tcagctcctt ttaccccgag atccaggctg ctcatgccag cgacagcgtg    480
cagagaaatg ctgccttctt ccgggaggtg acgcggcgca cggcgcggat ggtggccgag    540
tggcagtgtg tgggcttctg ccacggcgtg ctcaacaccg acaacatgag catcctgggg    600
ctcaccatcg actacgggcc ctttggcttc ctggacaggt acgaccccga ccacgtgtgc    660
aatgcctccg acaacaccgg ccgctacgcg tacagcaagc agcccgaggt gtgcaggtgg    720
aacctgcgga agctggccga ggccctgcag ccggaactgc ccctggagct gggggaggcc    780
atcctggccg aggagtttga cgccgagttc caaaggcact acctgcagaa gatgcgcagg    840
aagctgggcc tcgtgcaggt ggagctggag gaagacgggg cgctggtgtc caagctcctg    900
gagaccatgc atctgaccgg tgccgacttc acaaacacct tctacttgct gagctccttc    960
ccagtggagc tagagtcgcc aggcctggcg gaattcctgg ccaggctgat ggagcagtgt   1020
gcctccctgg aggagctgag gctggccttc cggccccaga tggatccccg gcagctatcc   1080
atgatgctga tgctggcgca gtcaaacccg cagctgttcg cgcttatggg caccccgggca   1140
ggcatcgcca gggagctgga gcgtgtggag cagcagtctc ggctggagca gctgagtgcg   1200
gcagagctgc agagcaggaa ccagggccac tgggctgact ggctacaggc gtacagagcc   1260
cggctggaca aggacctgga aggcgctggg gacgctgccg cctggcaggc tgagcacgtg   1320
cgcgtgatgc acgccaacaa cccgaagtac gtgctgagga actacatcgc gcagaatgcc   1380
atcgaggctg ccgagcgcgg ggacttctca gaggtgcggc gggtgctgaa actactggag   1440
accccttacc actgcgaggc ggggggccgcc acagacgccg aggccacgga agccgacggg   1500
gcggacggca ggcagcgctc ctacagcagt aagccccgc tctgggcagc agaactgtgc    1560
gtgacatgat cttcgtaacg acctcggcac gatccacacc cctggagtct cccgaggccc   1620
ccatgtgctg ctgagtggcc aagatgatgc caggctgccc tatacactgg gggattctgc   1680
cctgcccat gcacacccgt ctttccatga tggcagagac atccagtcag gacctgaccc    1740
gtctctgtct gaggccggct cagcagtgca gcctggtccc tggggctgg acccaggctc    1800
ctaaataaac cagcaactcc ctcgaaaaaa aaaa                               1834
```

1927

<210> 3142
<211> 3263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3266)
<223> similar to gi4731861 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3142
```
atggacttgt acagcacccc ggccgctgcg ctggacaggt tcgtggccag aaggctgcag     60
ccgcggaagg agttcgtaga gaaggcgcgg cgctcataga ggccgcctgg ccgctgctct    120
gagggagcgc gggggccgcc tcggtgctgc tgccccgcgg gtgctgaaaa ctgtcaaggg    180
aggctcctcg ggccggggca cagctctcaa gggtggctgc gattctgaac ttgtcatctt    240
cctcgactgc ttcaagagct atgtggacca gagggcccgc cgtgcagaga tcctcagtga    300
gatgcgggca tcgctggaat cctggtggca gaacccagtc cctggtctga gactcacgtt    360
tcctgagcag agcgtgcctg gggccctgca gttccgcctg acatccgtag atcttgagga    420
ctggatggat gttagcctgg tgcctgcctt caatgtcctg ggtcaggccg gctccggcgt    480
caaacccaag ccacaagtct actctaccct cctcaacagt ggctgccaag ggggcgagca    540
tgcggcctgc ttcacagagc tgcggaggaa ctttgtgaac attcgcccag ccaagttgaa    600
gaacctaatc ttgctggtga agcactggta ccaccaggtg tgcctacagg ggttgtggaa    660
ggagacgctg cccccggtct atgccctgga attgctgacc atcttcgcct gggagcaggg    720
ctgtaagaag gatgctttca gcctaggcga aggcctccga actgtcctgg gcctgatcca    780
acagcatcag cacctgtgtg ttttctggac tgtcaactat ggcttcgagg accctgcagt    840
tgggcagttc ttgcagcggc acgttaagag acccaggcct gtgatcctgg acccagctga    900
ccccacatgg gacctgggga atggggcagc ctggcactgg gatttgcatg cccaggaggc    960
agcatcctgc tatgaccacc catgctttct gagggggatg ggggacccag tgcagtcttg   1020
gaaggggccg ggccttccac gtgctggatg ctcaggtttg ggccacccca tccagctaga   1080
ccctaaccag aagacccctg aaaaacagca agagcctcaa tgctgtgtac ccaagagcag   1140
ggagcaaacc tccctcatgc ccagctcctg gccccactgg ggcagccagc atcgtcccct   1200
ctgtgccggg aatggccttg gacctgtctc agatccccac caaggagctg gaccgcttca   1260
tccaggacca cctgaagccg agcccccagt tccaggagca ggtgaaaaag gccatcgaca   1320
tcatcttgcg ctgcctccat gagaactgtg ttcacaaggc ctcaagagtc agtaaagggg   1380
gctcatttgg ccggggcaca gacctaaggg atggctgtga tgttgaactc atcatcttcc   1440
tcaactgctt cacggactac aaggaccagg ggccccgccg cgcagagatc cttgatgaga   1500
tgcgagcgca gctagaatcc tggtggcagg accaggtgcc cagcctgagc cttcagtttc   1560
ctgagcagaa tgtgcctgag gctctgcagt tccagctggt gtccacagcc ctgaagagct   1620
ggacggatgt tagcctgctg cctgccttcg atgctgtggg gcagctcagt tctggcacca   1680
aaccaaatcc ccaggtctac tcgaggctcc tcaccagtgg ctgccaggag ggcgagcata   1740
aggcctgctt cgcagagctg cggaggaact tcatgaacat tcgccctgtc aagctgaaga   1800
acctgattct gctggtgaag cactggtacc gccaggttgc ggctcagaac aaaggaaaag   1860
gaccagcccc tgcctctctg cccccagcct atgccctgga gctcctcacc atctttgcct   1920
gggagcaggg ctgcaggcag gattgtttca acatggccca aggcttccgg acggtgctgg   1980
ggctcgtgca acagcatcag cagctctgtg tctactggac ggtcaactat agcactgagg   2040
acccagccat gagaatgcac cttcttggcc agcttcgaaa acccagaccc ctggtcctgg   2100
accccgctga tcccacctgg aacgtgggcc acggtagctg ggagctgttg cccaggaag   2160
cagcagcgct ggggatgcag gcctgctttc tgagtagaga cgggacatct gtgcagccct   2220
gggatgtgat gccagccctc ctttaccaaa ccccagctgg ggaccttgac aagttcatca   2280
```

1928

```
gtgaatttct ccagcccaac cgccagttcc tggcccaggt gaacaaggcc gttgatacca   2340
tctgttcatt tttgaaggaa aactgcttcc ggaattctcc catcaaagtg atcaaggtgg   2400
tcaagggtgg ctcttcagcc aaaggcacag ctctgcgagg ccgctcagat gccgacctcg   2460
tggtgttcct cagctgcttc agccagttca ctgagcaggg caacaagcgg gccgagatca   2520
tctccgagat ccgagcccag ttggaggcat gtcaacagga gcggcagttc gaggtcaagt   2580
ttgaagtctc caaatgggag aatccccgcg tgctgagctt ctcactgaca tcccagacga   2640
tgctggacca gagtgtggac tttgatgtgc tgccagcctt tgacgcccta ggccagctgg   2700
tctctggctc caggcccagc tctcaagtct acgtcgacct catccacagc tacagcaatg   2760
cgggcgagta ctccacctgc ttcacagagc tacaacggga cttcatcatc tctcgcccta   2820
ccaagctgaa gagcctgatc cggctggtga agcactggta ccagcagtgt accaagatct   2880
ccaagggggag aggctcccta cccccacagc acgggctgga actcctgact gtgtatgcct   2940
gggagcaggg cgggaaggac tcccagttca acatggctga gggcttccgc acggtcctgg   3000
agctggtcac ccagtaccgc cagctctgta tctactggac catcaactac aacgccaagg   3060
acaagactgt tggagacttc ctgaaacagc agcttcagaa gcccaggcct atcatcctgg   3120
atccggctga cccgacaggc aacctgggcc acaatgcccg ctgggacctg ctggccaagg   3180
aagctgcagc ctgcacatct gccctgtgct gcatgggacg gaatggcatc cccatccagc   3240
catggccagt gaaggctgct gtg                                          3263
```

```
        <400> 3143
ggggaggcag gaggaggcta cagacggtct caagagggag gcccagccag tcccgcggcc   60
cctgacaccc catcagggcg ctcaggccca gcagctccgg ggaggacgcc ggcgaggacc   120
ccaccacgtt tgctgcccac cctctgccca gtgaccccg tctcttggcc actgtgacca   180
acgcatacct gggcacacga gtgtttcacg acacgctgca cgtgagcggc gtgtacaatg   240
gggctggcgg ggacacgcac cgggccatgc tgcccacccc cctcaacgtc cggctggaag   300
cccctgcagg gatggggag caactgaccg agacctttcc cctggacacc aacacaggct   360
tctttcttca caccctggag ggccccgct tccgggcctc ccagtgcatt tatgcgcatc   420
gcacgctgcc ccacgtgctg gctttccgag tgtccatcgc ccgcctggcc ccggggagcg   480
ggcccatcac gctgctcctg cggtcagcct tctccccaga aagcccagac ctggacctgc   540
atcagggtcc tgacttccag ggagcccggt acctgtatgg ccacaccctc accctgagc   600
agcccggggg gccacagcaa gaggtacaca tgctgtggac accagcaccc ccagacctga   660
cccttgggga agctgcgcca ggccctgcgt ggctcacact aaactacctg ctcagtgccc   720
tgccccggcg cgcggccg                                                738
```

<210> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (10)...(979)
<223> similar to gi3319425 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3144
cccgcgctgc aggaattcgg cacgagtggc agcggtggag gcggcagcac aggaggagga   60
ggaggaacag caggaggagg aactcaaagt actgctggcc ctggagggat atctcagcac   120
ctgacttaca catcttacat ccctcaagcaa actccccagg gcacattttt agttggccag   180
ccatcacccc agacttctgg aaaacaactc accactgggt cagtggtcca aggaacactg   240
ggagtcagca catcttctgc acaaggacaa caaacgctaa aagtcatctc tggacagaaa   300
accacattgt ttacacaggc agcccatgga ggacaggcat ctctaatgaa aatatccgat   360
agcaccttga agactgtgcc agccacctca cagctctcga agcctggaac cacaatgctg   420
agagtagcag gaggggttat cacaactgcc acttcccctg ccgtggccct ctcagcaaac   480
ggtcctgcac aacagtctga aggaatggct cccgtgtctt catctacggt cagttctgta   540
acgaaaactt ctgggcagca gcaagtgtgt gtgagccagg ccaccgtggg aacctgcaag   600
gctgccaccc ccaccgtcgt cagcgccacg tccctcgtgc ctacaccaaa ccccatctct   660
gggaaagcca cagtatccgg actgttaaag attcactcca gtcagtccag tccgcagcag   720
gccgtcctga cgattcccag ccagctcaaa ccactcagcg taaacacatc tggaggggtg   780
cagacgatcc tgatgcctgt gaataaagtg gttcagtcat tttctaccag caagccacct   840
gccattctgc ctgtagctgc cccaactcca gttgtcccca gctctgctcc agcagctgtt   900
gcaaaagtga agactgaacc agaaacacct ggaccgagtt gcctctctca ggagggtcag   960
acagcagtga aaacagaaga aagttctgag ctgggaaact atgtcattaa gatagaccat   1020
ttagaaacta tccagcaact cctaactgca gtagtaaaga agattccatt aatcactgca   1080
aaaagtgaag atgccagctg cttttctgca aagtctgtgg agcagtacta tggctggaac   1140
attggaaaaa ggagagccgc tgagcggcta agagcaatga caatgcgaaa agtcttacaa   1200
gaaatcctgg agaagaatcc gagatttcac cacctgactc ccctcaaaac caagcacatc   1260
gctcactggt gccgctgtca tggctacacc ccaccggacc ctgagagcct gaggaatgac   1320
ggggactcca tcgaggacgt gctgacccag atcgacagcg agcccgagtg cccatcatca   1380
ttctcctctg ctgacaacct ctgccgcaaa ctggaggacc tgcaacagtt ccagaaaagg   1440
gaacccgaga tgaggagga ggtggacatc ctcagcctct ccgagccagt gaagataaac   1500
atcaagaagg agcaggaaga gaaacaagag gaagtcaagt tctacctgcc accaacccca   1560
gggtctgaat ttattgggga tgtcacacag aagattggga tcaccctgca gcccgtggca   1620
ctccacagga acgtgtatgc gtccgtggtg gaggacatga tcctgaaggc tacagaacag   1680
ctggtgaatg atatcctgag acaggctttg gcagttggat accagacagc ttctcacaac   1740
aggattccca agaaattac agtgagtaat attcaccagg ccatttgcaa cattccttt   1800
ctggactctt ttaccatcaa acacatggga atatcttatg agtgccattg agcggacttg   1860
ggtgccctgg ataaccacg   1879

<210> 3145
<211> 900
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<400> 3145

```
ctaatacgtt gcatgcccgc gtaaacttgg gccccccag ggatccttta aaacggccgc      60
cccttttttt tttttttttt tctcaaatgt catttattag aaaatacaat tcccgagaaa     120
ggagatacaa gggattctgg gaagtgggaa gtaaacagta cacagatctc tttaaatcag     180
gagcatatag gtcataataa aatgagctac aggcacaaag ccagtaacac atttatggtc     240
cgttcatctg gaaaagtttc accgcccact ccccactcct cttccccctc ctggaagcag     300
ccagctttat ccttggcatt ttaatttag agaaaattta aacttccatg ctgccctgtg      360
gcttcggtca atggagcttc tttctccagt tatggaatga gtcagcaaaa cggggagttt     420
ctgatccttg gaattaggga gggacagttt acagaatgtc ctcatttcac tcttttccca     480
atcatgggaa atatccagcc aattctggtt ttaaagattc atatcaaatt caaagtccct     540
ccctcctttt ggcgaggaag acaacccttt agagcgaaac acaaaagagc aaatgtaaaa     600
tccatctggg gcggggcatg gtggctcacg cctgtaatcc cagcactttg ggaggccaag     660
gcaggcagat cacgaggtca agagatcgag accatcctgg ccaacatggt gaaaccccgt     720
ctctactaaa aatacaaaaa ttagcttggc gtggtagcac atgcctgtaa tccccagcta     780
ctcgggaggc tgaggtagga gaatcgcttg aacccgggag gcagattttg cagtgagtcg     840
agatcatgcc actacactcc agcctggcga cagggcgaga ctccgtttcc aaaaaaaaaa     900
```

<210> 3146
<211> 1432
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1413)...(53)

<400> 3146

```
aaggggcctg gaggatatag ttctggtcct gctgggagac acgagggtca caggcatgga     60
gaatggagat ggaggggggag cccggtccgt gggccccaag agccgagccg gacgagggat    120
ggagtgggga gacgcaggag ggcggtgtct agggctgggg aatggagtcg tgtctggcac     180
cccggtgggg actgtattgg aaggcagccc agaatgggca gcggcgagga gtgaacacct     240
ggctgcaggt gacggcctgc aggaaggagg cgaagatggc cccagggaac caaagaggct     300
ttgccgaccc ccgggagagg aggaggtgga ctgggaaccc ctggccaaat tccgagcagc     360
ctgcgggcca gagctggcag acctggtggc tgaggagttg gcctttgcta ggcagcatgg     420
gacccggggt ttccactgga ccggagctgg ctttgccctt aaggacggca cctcggactt     480
cttcctggat ggggccctga cacgctgcag ctgctcaatt cacgccgccc gccgtctgcc     540
ctgcatgaca cctctttgca gcgcgcctcc tcactggggc tgccttattc cacatggacc     600
tgctcaggga ttgctggggg agagccccag agccctgacc cttcatgcct ctgcccacca     660
ccctccacca ggagggtcgg agggcattct tcgatcccaa agataatagg gctgaggcca     720
aggagaccgt tgcagtcccc ctggccacct tctgggtcat ccagggacct cctcatggca     780
gtttgcctct ctgggtccaa gggcaagctg taagtggtct ctgaggtcct ggagccacag    840
```

1931

```
cttgggaagg tgttgatggg cagggtggat tctgagggct tccctctgga gaggaagcat    900
gtgatgagag gtgtagacag ggtcaggctg ggacagaagg aaggaaaggg gcagagctgg    960
ggggaggggg aggaagcgat catatgggga gtgtctggca agagtagact ggccagtcta   1020
gggagtgcag cggggagagg ggaaagggag aaagtacaga agacagatga aggagaggag   1080
gtaagcgaga aaaaatggaa aggggagccg gaaatggagg agagaggaca agcaaagaga   1140
cagaaatgaa gacatgagga aaagctgggg gaagcaggag aggaagggac gggatgtagg   1200
aggggaaga aaaatcggag atgagacaaa agaaatgtgt gggagacggg tagagacgaa   1260
atgcaagggg cgtggttttg gtttttctcc aagacctgga gacatcgacc cccatcgcct   1320
tctgaagaga gaggggaggc gggcactggg ggtcaggaga gtctccagca ggggagggga   1380
attgtttgga ctattgttct tcaggattgg aataaaacaa tcttaatttg ga           1432
```

```
        <400> 3147
tttttttttt ggaagatcac cctgctttat tgcctgggcc ttaaggtaat caggggtgtc     60
cctctccagc caggacctgg gattccgttt caggagctcg ggctgaacgg ccaccttcct    120
ggtgggtctg agccccagtg cctggtgtga aggggcagac gcccatgaca acagccaccc    180
cgcatgtccc ggcatgtccc ggcactgtgt gagccacatt tgctgaagtc tgggtcctgg    240
ccctggcagg gtgggctggg ctaggagatg acacagcagc agcagctgtg gcagcggcag    300
aaggggggc agtggcagca gtggcagcag gggcagcagc agcagtggtg ggcgatgtca    360
tccccgcgcc ccacgggcgg agggccagcg taggtcagtc cggcctggcg ctgactgctg    420
ctgtaggggt tgccaggctg ctgccaggcc tgctggttct ggatggggc agccccctgg    480
ttacccttgg cgcccttggg ccctgggacc tcggtcggct gcaagaggtg ggttggctct    540
ggggcacagg gccccactgg cagggctgc atctccgagg atgaggaaca ggtggaagcc    600
acctctaact gctgccccag gtcaggccgc aggtgagccc gggggatgct gatgtgggca    660
tatgggttct tgacgaccat ctcttggggg tccatggtcc agcctgtggt ggcaacacgg    720
cagtctgtcc tctcggtccg gacgcgtggg tcgtcccggg atttggnnnt ggcaanggtt    780
tccnaggtgt caaag                                                     795
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(806)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (19)...(270)
<223> similar to gi1872200 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3148
```
tcttgctctg ccacccagac tggagtgtag aggcacgatc ttggctcact gcagcctccg      60
cctcctgggt tccagcaatt ctcctgcctc ggcctcccga gtagctggta ttacaggcac     120
ccgccaccat acccggctaa ttttgtatt tttagtagag acggggtttc accatgttgg      180
tcaggttcgt cttgaactcc tgacctcaag caatccaccc accttggcct cccaaagtgc     240
tgggattaca ggcatgagcc accgctcctg gctttcttta atgtaactta aataaaatat     300
aaggttttac tttatttgtg cttttggaa atgtctcctg attttaata acagtttatt      360
atgccttgta ccagctttt tattaatata taaggtgccc actatattat accaattatg     420
ctgcttatat agttattcat atgcatctca aaaccttcct taatgtactt ntaatgaggt     480
aacaccatag gcanaattgc atctttntca ttatctgcca tttaatatct atagtttacc     540
aacgatgaca ctgcaagcat tgtgtcttct gatcgtgcca gtcgtggacg aagggagagt     600
gtggtatctg ccgctgatta tttcagtcgc tccaatcgta ggggaagtgt tgtctctgag     660
gtggatgata tcagtatccc agatttgtcc agcgtgagtg tattgcatgg ggtggttggt     720
tatgttgtcc caggcttgtg actaacagct aatatgttag ctattttata ataaaagtgg     780
gaacttgatt tattgtctta agaag                                           805
```

<210> 3149
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (117)...(466)
<223> similar to gi3875169 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3149
```
aacacgattt cgtccggtgc gaggccagag gtggggaagc catcggacgt cggcggtgag      60
gatcttctcc tgacccagca tcgctcatca caatgaagaa ccaagacaaa aagaacgggg     120
ctgccaaaca atccaatcca aaaagcagcc caggacaacc ggaagcagga cccgagggag     180
cccaggagcg gcccagccag gcggctcctg cagtagaagc agaaggtccc ggcagcagcc     240
aggctcctcg gaagccggag ggggctcaag ccagaacggc tcagtctggg gcccttcgtg     300
atgtctctga ggagctgagc cgccaactgg aagacatact gagcacatac tgtgtggaca     360
```

1933

```
ataaccaggg gggccccggc gaggatgggg cacagggtga gccggctgaa cccgaagatg    420
cagagaagtc ccggacctat gtggcaagga atggggagcc tgaaccaact ccagtagtca    480
atggagagaa ggaaccctcc aaggggggatc caaacacaga agagatccgg cagagtgacg    540
aggtcggaga ccgagaccat cgaaggccac aggagaagaa aaaagccaag ggtttgggga    600
aggagatcac gttgctgatg cagacattga atactctgag taccccagag gagaagctgg    660
ctgctctgtg caagaagtat gctgaactgc tggaggagca ccggaattca cagaagcaga    720
tgaagctcct acagaaaaag cagag                                          745
```

        <210> 3150
        <211> 869
        <212> DNA
      (<213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(870)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (112)...(810)
        <223> similar to gi155947 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters

        <400> 3150
```
tttcgtggag acgctacgct ggcgcaagag gttttttttgg aggcgctacg ctggcgtaag    60
aggcggcggg ggaggcgcta cgctggcgta agaggcggcg gtggaggcgc tacgctggcg   120
taagaggtgg cggtggagac gtttcgctgg cgtatgaggt ggaggtggag acgttacgct   180
ggcgtaagag gggcacgata caactgcagc tgcaataaac tggtccttat acctgttggg   240
gtctaaccca gaagtccaga aaaaagcgga tcatgaattg gatgacgtgt ttgggaagtc   300
tgaccgtccc gctacagtat aagacctgaa aaaacttcgg tatctggaat gtgatattaa   360
ggagacccct cgcctttttc cttctgtttc tttatttgcc cggacagtta gtgaagattg   420
tgaagtggca ggttacagag ttctaaaagg cactgaagcc gtcatcattc cctatgcatt   480
gcacagagat ccgagatact tccccaaccc cgaggagttc cagcctgagc ggttcttccc   540
cgagaatgca caagggcgcc atccatatgc ctacgtgccc ttctctgctg gccccaggaa   600
ctgtataggt gttccaagcc attctgattc tccttccacc tactgcgaaa atgtcaaaag   660
tttgctgtga tggaagaaaa gaccattctt tcgtgcatcc tgaggcactt ttggatagaa   720
tccaaccaga aaagagaaga gcttggtcta gaaggacagt tgattcttcg tccaagtaat   780
ggcatctgga tcaagttgaa gaggagacga aatcgtcgac nnnnnnttcc ggnccggtnc   840
gtgcnggcgt agcggttctc tatgggagg                                     869
```

        <210> 3151
        <211> 1730
        <212> DNA
        <213> Homo sapiens

1934

<220>
<221> misc_feature
<222> (68)...(18)
<223> similar to gi3874886 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3151
cggacttccc gggtcgacta cagcatcggc ggcggcggct agtgccgcta gcgcctcgag   60
cgatgcacct cctttccaac tgggcaaacc ccgcttccag cagacgtcct tctatggccg   120
cttcaggcac ttcttggata tcatcgaccc tcgcacactc tttgtcactg agagacgtct   180
cagagaggct gtgcagctgc tggaggacta taagcatggg accctgcgcc cggggggtcac   240
caatgaacag ctctggagtg cacagaaaat caagcaggct attctacatc cggacaccaa   300
tgagaagatc ttcatgccat ttagaatgtc aggttatatt ccttttggga cgccaattgt   360
agtcggtctt ctcttgccca accagacact ggcatccact gtcttctggc agtggctgaa   420
ccagagccac aatgcctgtg tcaactatgc aaaccgcaat gcgaccaagc cttcacctgc   480
atccaagttc atccagggat acctgggagc tgtcatcagc gccgtctcca ttgctgtggg   540
ccttaatgtc ctggttcaga aagccaacaa gttcacccca gccacccgcc ttctcatcca   600
gaggtttgtg ccgttccctg ctgtagcaag tgccaatatc tgcaatgtgg tcctgatgcg   660
gtacggggag ctggaggaag ggattgatgt cctggacagc gatggcaacc tcgtgggctc   720
ctccaagatc gcagcccgac acgccctgct ggagcacggc gctgacgcga gtggtcctgc   780
ccatgcccat cctggtgcta cccccgatcg tcatgtccat gctggagaag aaggctctcc   840
tgcaggcacg cccccggctg ctcctccctg tgcaaagcct cgtgtgcctg gcagccttcg   900
gcctggccct gccgctggcc atcagcctct tcccgcaaat gtcagagatt gaaacatccc   960
aattagagcc ggagattagc ccaggccacg agcagccgga cagtggtgta caacaagggg   1020
ttgtgagtgt ggtcagcggc ctggggacgg agcactgtgc agccggggag ctgaggggca   1080
gggccgtaga ctcacggctg cacctgcagg gagcagcacg ccaacccag cagtcctggg   1140
cccccctggga gagtgctcaa cctacagtgg agggagactg acccattcac attttaacat   1200
aggcaagagg agttctaaca catttcgtac aaaaaaataa tcaagtgcat ttctgggcct   1260
tatgtggggt tgtcaaaact ccactcagca caattatgtg tgaagctgaa aaattgtaga   1320
gtgcccatgg ggtagaagta gaatcctttt atactttggt tcctttttta ttttattttt   1380
ttatcagaat caaatctgag ccttagtttc agctgaccag aagtggcagg aggacaggtg   1440
gaggcgagcc agattaggcc tggagttggg ctggtttggt ggccaggctg gtaaatttag   1500
gatattacaa tggccagccc agatggctcc ctgggctggc atggggaggg gagagaaggt   1560
ggtctgcacc ccacaggatg aactagccat gactagggtc ctcaggcagt ggcccaggga   1620
atcagggagc actggaggcc tctgcaagat tctgtgggca gctggctctg aatgtagcca   1680
gcccacatcc attccagagc tgcagaacca cgccctctga gtggaagccg   1730

<210> 3152
<211> 2299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2300)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2241)...(1227)

1935

<400> 3152

```
cctaaaagaa caaaaaaaag tgagagaacc attagatact cagtttcctg acagtaacag    60
aagaaaacag gactaagaac attcactaaa gctttcagtg tgggcagtct gtcagtaaaa   120
aggtaagtag tagggtcaga ggtatggcat tccacatacc agctctacca agaatgaaag   180
agcatacgga ctacagaaac ggacgtgtgt ccgtgattaa acttttggc atcgctgtat    240
taatcccttt tgatgtatat aagttcagta tatgacaaat gtttcagttc ccccccccca   300
aagaatccaa tcacaaccaa gacacacaca caaatcactt ctcagttaca catctgcatt   360
tctttaacaa aacagtaaga gatacaatca tagcgaagag gtcacccgca caatacatta   420
tcagcacact gtctagaaca cctcatttaa agacactcag taaaaacgta ttcacaggac   480
ctgctgtgaa tggcaagata tggtaatttt ataatagaag aactctgctc atgcagtact   540
ctccacacac cagacgtcgg aaatcacagc cacatcatca ccttgctcac acttccctat   600
tatactagat atgcaaaaag ccaaaaaaag cagctttaa cattatatca ttatatcaca    660
attttgaaac atgggaaaaa ataaaaaaca aaaaccattg tgtggataaa atggtctccg   720
tgacattgag cagagtgtta tcttttttt ttttacatt attgcacaga gatttctcat     780
caatgttctt cagtttttat gtcttttcct aaatgtgaat aagtgctatg gataaaatac   840
aaatgtagaa aataacagca gcatgatttg tcaaagttaa tccctataat ttagtaagaa   900
aaaatggata taaacaaaat aagtgctctt tctaaactgt actaaatttt ccaaaaatat   960
tggtttttaaa tggcagtgaa ggtcctgaaa agcctattga aagcgatgct gagtcctggt  1020
tttcaaaagt gtcctggttt ggggtttcct tggtgaagag cagaatttca aggtgaagta  1080
atccgacgga ctaaatttaa aacaaaacag ccctcggctt cccctaattg ggcctgtgaa  1140
gggcaaccgg cttccgggga ncctggacc tgggaggcca gccgagtggt tgggggggtgc  1200
ctggccccca tctacacgta cacaggctgg cagccttcag tctgatccac cagatcagag  1260
ctttctaaat ctgagctctc agcctgtgaa gcttctgctc ctgaaggctt tgggcatcga  1320
aagggggtagc cattgtcatc aaagaacctt cggaaggtga attcgtaaaa tgcgtgctca  1380
ggatgcttgt tattgggcga ggtgagtgtg tcccaggcct tggtgctaac cttcgctggc  1440
atcgttccaa gggctttctt catctacggg gtcgaaattc gaggtgtcca tggggtggct  1500
gatggtggga acgtagggg ctggctgctt ccggatgtca ctggagaagt caatggcgct   1560
gaagaagggg tgggccttca ggtcatcggc cccattccgc cccaggcggt ggtctgcgga  1620
gcagcacagc ttggtgatga ggtccctggc ctcagggctc agcttcacct gggctggaat  1680
gtggagcgtg ttctcccagt tgatcacctt cagctgggtt tctgtgggag taggtgccaa  1740
aaagggcggc tgccccacca gcatctcgaa gagaatcact ccaacactcc accagtcaca  1800
gagttgagtg taccctttgc ggaggagcac ctcgggtgcg atgtagtttg gagtccccac  1860
cagtgaatgt gccaggcacc tctggtgctg cttccgcgcc ctctgctcta gggtcttcag  1920
cctctcccca caccgacagt tagacacatc atcccagagg tcgctgggct ccatgctgtc  1980
ctgtctgaca tggctccctt tctggtaata tttggaattg tgagtccacc tgaacccagt  2040
gcagaggccg aaatctgtga gtttaatgtg accatccaga tctatcaaaa tgttatcagg  2100
cttgatgtct cggtggatga agcccatctt gtggacactc tcaatggcca aagtcagctc  2160
tgcgatgtag aaccggccca ggtgctcagg gaagacctcc atccggatca gcaggctcat  2220
catgtcccca ccagggatgc ggacgcgggg tcgcccgggn ttccgnccgt gccagcattt  2280
cgggacctct tagcggccg                                                2299
```

<210> 3153
<211> 891
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (209)...(723)
<223> similar to gi5732634 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3153
tttcgtaagg cccagggggt gtctgtcagt gggacgacct tgtttcccct ccacgtctcc   60
tctcatactt caaattactt ctcctatgca tttggagagc gggagagaaa aacaccagga   120
aggaggaggg aacaaagaaa ctctacaggc agagacacag gactgagccg cgttgggggc   180
actgggagga gtgagccttg gggttgcacc ctcggagccc cactgtcctg ggagcagcct   240
tcagaaccac ccttttgttc tctgaagtac caggcgttca gcttttccaa ggactggcag   300
ctgcacatct ttgtccctgc cccttccatc tctaggctca gccccgctgg gcaggctggc   360
ccactcccca cccctgccca gggccaaccc ctacttccca tgccccctct gcccacctgc   420
agcacactgg agccttgcag gccctctctg catcattcaa gatgcagact cctacacttt   480
gacctgcaca catcctcctg aagcttccac ttcctggccc ctgcctggct tctcacctcc   540
cccacctcag ccccccaggg gatgtgccgc ctctcccagt ggcccaggac atcctccact   600
tcccgggaac cccaggcact tccacatcct cagacacagt gagaagatga ccctctctcc   660
aagccaggaa gagacctccc gaggagccca gccagccagc acgctgacct ccaacgtcca   720
gcctctggaa atgtgagagg ccaacgtctg cgttgggagc cacgtggtcc cgtgggatct   780
ggcctggcgc taaagccgct gcgctcctgc cccgcaccag gatgtgggaa ctttgagaac   840
cgctgagagt cgagagatgt catcgaaacg acacccgata cgtgttccct g   891

<210> 3154
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (154)...(763)
<223> similar to gi556217 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3154
tttcgtagga tgcccagcca gccgagctcc gggcagtacc cgccctccac ggtcaacatg   60
gggcagtatt acaagccaga acagtttaat ggacaaaata acacgttctc gggaagcagc   120
tacagtaact acagccaggg gaatgtcaac aggcctccca ggccggttgc tgtggcaaat   180
taccccacaac cacctgttcc agggaacccc acaccccca tgacccctgg gagcagcatc   240
cctccatacc tgtcccccag ccaagacgtc aaaccaccct tcccgcctga catcaagcca   300
aatatgagcg ctctgccacc acccccagcc aaccacaatg acgagctgcg gctcacattc   360
cctgtgcggg atggcgtggt gctggagccc ttccgcctgg agcacaacct ggcggtcagc   420
aaccatgtgt tccacctgcg gcccacggtc caccagacgc tgatgtggag gtctgacctg   480
gagctgcagt tcaagtgcta ccaccacgag gaccggcaga tgaacaccaa ctggcccgcc   540
tcggtgcagg tcagcgtgaa cgccacgccc ctcaccattg agcgcggcga caacaagacc   600
tcccacaagc ccctgcacct gaagcacgtg tgccagccgg ccgcaacac catccagatc   660
accgtcacgg cctgctgctg ctcccacctc ttcgtgctgc agctggtaca ccggccctcc   720
gtccgctctg tgctgcaagg actcctcaag aagcgcctcc tgcccgcaga gcactgta   778

1937

```
<210> 3155
<211> 1176
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1060)...(362)
<223> similar to gi775239 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


      <400> 3155
cttgcgggtg agggaggccc aataacagcc agactccatc agttcagagg caggggctag      60
agatggattt aattcaactt aaaaagaaat acaagaatgg acctttтctg cagtcctgag     120
ggagtggaca ggttgcgtgc gtgctctgac ggtgggatcc agaccccctc ctctcctgcg     180
ttgaaggtgc caccgggcct catccccagc cacatcacat cctgagcctc ttacaggcag     240
gccccgaggt cctttcacct ttctcttctc tccagtgctt ggtgcatttt caaactcagt     300
acctttcttt tgaataaatg agcaagaata aacccggtgc tgcttgccga gctcctctcc     360
ctgggcgggg aactaaagca aaaccacgct ggatggggtc ccaaacaccc taagaaggcc     420
gagctcctgc cgctctccag cacgcgcacc gaagaccgga gggagggtct gtcgctctcc     480
tgcaggagca cgagtggagg gagggcctgc ggcgctccag caggagcatg aggagtggag     540
ggagggcctg tcactctcca gcacgcacac cgaggagtgg agggagagcc tgtcgctctc     600
cagcagaagc accaaggatt ggagggaggg cctgtcgctc tccagcagga gcacgaggag     660
tggactgccg gcccgtcact ctccagcacg tgcaccacgg agtggagaga gagcctgtca     720
ctccagaagg agcaccagga gtggactgcg gacccgtcac tatccagcac gtgcaccaag     780
gagtggaggg agggccccct gctctccagc aaaagcacca aggatcggaa gtagggcctg     840
tcgctctcca gcacgtcccc ccccggcagt ggagggaggg cccgtcgctc tccagcatga     900
gcacccagag atggaggaag ggtcagccat ttgtcaggct ctgcgtgtga aaagctggga     960
tttcatttct tatcagttat tactgtcact atcactcagg atgaaattgg cctcacccgc    1020
tcaagaacaa tgctgccttc tccctgtcct cctcctggat tggtgaggaa aaagccagac    1080
taacctgttc cacaccttgg catcagttgc ataaatgcta tctcagcatg ttctagaaca    1140
cagtactgtt taaacaacgt tctgggggta accaag                              1176
```


```
<210> 3156
<211> 1867
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1686)...(1277)
<223> similar to gi3878306 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

1938

<400> 3156
```
ataatagaaa catgtttaat tatggagagt aaaacagaaa cgagaaaaaa caggtatcat    60
ccatgtattt tatattcttt tctagaacaa ccaatctta ttagaaagtt gtagtcacgt   120
ttacaataaa tatcaacaat ataatgaaaa agtagaacaa attagtttcc aaatactgaa   180
ctcctgtaac caaaacacat ttttggattt gggaaaacac agtaaacaca taccaaaaac   240
acagccacaa ataccaaaaa caaaaaccag ctcaagtata ggattgaact ggctggaaaa   300
cacttattgt gttactgcct taagaacccc acggagcacc ttgtagctca ttaactgcac   360
attttcctta ggggggaaac aaggtcctct ctcagtcaca tatgcataag gaaatctcaa   420
aacccaaagg ccatcaggtg gaagggtgat ttcttgtttt tctgggtaga ataccggaca   480
tggtggtggg cctggctgaa cctgaggcat tagtattatc tggcaaagga ggcatcagga   540
accacaacaa aaagcctcat aagttggagc gtaatgaggg ttttcagccc ttctaccttg   600
agaggatgac agaatatata agggcatgtc actatttagg gcttttaaag ctgattcctt   660
tggcccactt cccattactt tcattacttt gtcaggccca gagcacatga atctccgacc   720
tcgagagtct tcatattcaa agcccacaaa agctcgagct atgtcatctc gccgtcttcc   780
tcttcccatt acaaccgcac ttctctttcc aggaatagct ttatttggag caggccaaga   840
gtttgtgtct aagtctcctt catcttcagc tctagtcctg atgacaatgt cccaaggcat   900
aagataattt gttcctggaa taaagccctg ttggtccaaa cctgtatgaa agttataaga   960
cttagcaggg cctagtttaa ccaaagacca gctggagaat ttgggtagga gacctttagg  1020
gcaatttgaa tgtagcatgc ctgggagata ctcaactgtg gatgcctgtc gatcaacgaa  1080
gtttggcctc ttctcagttt tcacttctac ttgaccatga acttctggat tatctcctcc  1140
tgcttgtgga tcagctggat aggtacctaa gctatctgtg gattggccca aactcaaagc  1200
taaactcagg ctcgtgctct ctccttgggt ttgaggttct ttttctttaa gtttatcagc  1260
atccgaatct ggaggagcag gagaggattc atttttagca ggagcaggat ctggagtact  1320
tggttcaaat actgggaaat tgatatgatc caattttcca caacacttt cttccagaag  1380
ctgatagaag tcataattgg ctgctttgat atcaaaggga tcatctcgag gtgcttgttt   1440
ccttccacag ttgcaagcac cagtagatcg agctcggcta ttgtgatata gcacaggcgg  1500
atttctatca gcctctggtt tttctcctga tttaggtaat gagtgaaatt tgtgcacaca  1560
gtgttgatca gttaaactcc tctcctcaca gagctgatgg ccattgctcc aaaatttgta  1620
gcagtcctca tgtaactgca tggcgtattt gtgaaatgct ggacctatag catgttgact  1680
gtacactcga agagcctggg caagctgatt cttatggaca gtcattgtgt aattatgagg  1740
caaatttgac tggtaggcac tgtgggccat gggtaaagct ttttggcatc ggttttctga  1800
aaattttggg tcaatataca aaaatctttc caagacttta atactgctta aaatcttaca  1860
tgttagc                                                             1867
```

<210> 3157
<211> 1264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(635)
<223> similar to gi4567179 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3157
```
aacgtggaaa ggcctttatt cgtagaggga atcttaaaga acatctgaaa attcattctg    60
gtttaaaacc ctatgactgt aaagaatgtg ggaagtcctt tagtcggcgt gggcagttca   120
```

```
ctgaacatca gaaaattcat acgggtgtaa aaccatacaa atgtaaagaa tgtgggaagg      180
cctttagtcg tagtgtagac cttagaatac atcaaagaat tcatactggt gagaaaccct      240
atgagtgtaa acaatgtggg aaggccttta gacttaattc acaccttact gaacatcaga      300
gaattcacac tggtgagaaa ccctatgagt gtaaggtatg tagaaaggcc tttagacaat      360
attcacatct ttatcaacat cagaaaactc ataatgtaat ttaatataag aaaaggtttc      420
catgtcatgc tctatttata gaatatcaaa atatttatgg ccagaagttc tgtcaatgtg      480
ttgatgtttt tttacacata ttaacttaat aaatgtatga gtcttaaata cctcttagtt      540
ctcattaaat ttaggaaaat tcacactaga aaataaagct gttaatgtaa cagttgtgga      600
aaagtgttct agcaacagca tatacttatc atcattgcct ttccactact ctactatctg      660
tgtgatatta gacaaaatat ttgcttcttg gtacctcagc tgtaaaatga aacacaccta      720
aaagtgtggt tgtttccaac atgtataata cagcaacaac tatctggccc caaacctgct      780
ttggattaat attggatatt tactgttttt attatcatcc aacattatta ttagtggatt      840
tcttaaatag gaagatgcca atggagatga caaatttgga aaaacccact catcacttac      900
catttccatg aagtactttc ttttgataaa aatctgttat gggcctgaat gtttgtgttc      960
cccgtaacaa ttccctatgt tgaaaacacg aatcccaagg tgatggtatt tgaaggtagg     1020
gcctttagga ggaaattagg tcatgagggg tggagccttc atgagtggga attactgcct     1080
ttataaggaa gaagccaaag agccagctag ctcttttcaa ccacatgagg ttacagcaag     1140
aagtcagcag tctacagtgc aaaagagggc cttcaccaga acccaagcat gctggcacct     1200
tgaccttgga ctttcagcct ccaaaactgt gagaaataaa cctcagttgt ttataaaaaa     1260
aaaa                                                                  1264
```

<210> 3158
<211> 821
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (56)...(439)
<223> similar to gi1019435 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3158
```
ttttcggtta tgatggcgag gaaagccgct ggtgggcttg gaggtcatca aaaaaaccac       60
ccatccccct accactacca tgcagcccac cactactacg acgccctgc ctaccactac       120
aaccccgagg cccaccactg ccaccacccg ccgcacgacc accaggcgtc caacaaccac      180
agtccgaacc actacgcgga caaccaccac caccacccc aaacccacca ctcccatccc       240
cacctgtccc cctgggacct tggaacggca cgacgatgat ggcaacctga taatgagctc      300
caatgggatc ccagagtgct acgctgaaga agatgagttc tcaggcttgg agactgacac      360
tgcagtacct acggaagagg cctacgttat atatgatgaa gattatgaat ttgagacgtc      420
aaggccacca accaccactg agccttcgac cactgctacc acaccgaggg tgatcccaga      480
ggaaggcgcc atcagttcct ttcctgaaga agaatttgat ctggctggaa ggaaacgatt      540
tgttgctcct tacgtgacgt acctaaataa agacccatca gccccgtgct ctctgactga      600
tgcactggat cacttccaag tggacagcct ggatgaaatc atccccaatg acctgaagaa      660
gagtgatctg cctccccagc atgctccccg caacattcac cgtgggttgg ccgtgggaag      720
gtttgccact tcattttgtt cattgtggga ttggggacaa aggccacccc aggagatgtg      780
ggcacaggct acttggatta cagtgcatcc tatgaagact g                         821
```

```
        <400> 3159
aaataaaaat ttctgtgttt gaggtatcac tgtaagacat gccaatatgg cacatttgta    60
aaacaaccca ggagtctatt ctaaaaatca caaccaactc agcatcatct ctgcagactt   120
actaacaggc tgaactaatc tctttataca agaagtattt taattattac aaaaacaaag   180
gaggcacgta ctaaaaattc tgcatttcat agaagagtaa aactttgtta gagatatttt   240
catgatcatc tacctgcaga caccattcat ttaaaaagtc ctagtcaaga ccattaagca   300
gctgcatctt ctacaacatt gaaaaaaaat ccctagagat ttaaaaaact gaagaatttc   360
actatcttta aaagatatta tattttagta cataaagcta ttaaatttct ctgtgtcaag   420
agcaaaacat taccccttac cttgcttcat cattggaagg tggacacctg atccagcaat   480
actcattaac tgctaggtag atgacccatg ttgatggcag taaagccatt ttacaatgaa   540
cttatgaagt agtaacacta gccaaacaca cagagacaca aataccaaaa atgatgtgtt   600
tagtatacac aaatagctat acttggggca tggctatcaa gtaacaagac tgatttaata   660
ctttacagtt acagcacatt aaaaatatat tgccagaggg ataatggtcc caaatacgaa   720
aaatgtctat atggaaaagg ctgtgattta ttgcaaagca taatatatag caaattccaa   780
ggaagggcaa acacgtttta aaaacaaatt tttaaattta acgggcttaa gccaaagtct   840
cagttacttt ctggagaatt cagaactatt aggtgtagaa gaatgctttt ccttttttct   900
cttctttttt tccttttgg gatgtttccc ttttttgat ttactctttt tttctttttt   960
cttttctttc ttctgatatt tttgtttctt ttgtttgaa gtgtcctctt cagtggaact  1020
ggatgagtaa gacctttcc ttttttttt tcaatttgat ttttctttg cttttttctt  1080
ttttcttttc ctcttcttca tttattcttt tttcctgtaa tgcctgcaat ttattcagtt  1140
cttcattctc ttcatcgcta tcttcactac ttgtactgct gacatccaaa actatgtccc  1200
ttttagggtc tactcggaga aaattgcggc attcaaaagt caggtgacca gggtagccac  1260
attttttaca gcctgctctg acactgtcct tgttgcaacc tgggactgcc atgacggtgg  1320
taagaggggt aactcgagcc tctggctttc gaaaaggcgc ttgcttcccg ccagctgtga  1380
gaacaaggca cagtcaaagc ggcgttttcc ttcccccagc gcagcagcac cctcgctacg  1440
gtcgcgtacg cgt                                                    1453
```

1941

<400> 3160

```
tttttttttt ttgaaactcc aatatcttaa taatgcaaac atatttggat tgaagaatga    60
atgcatcaat gctaaagaat agcttacata tgttgtaaag caacaagcat atcttcaaga   120
agtgagtcct cctcaatatg actccatgct tattctacat gcctgaaaac tgggcccaca   180
cacagggca cacgtacacg cacacaaacg cagatacgga cacacagata tgcagaccga   240
aatgctgaca ccatcgctct ctagattgga ttagctctca tttaaggctt cttaggtgcc   300
gcagtgcccc taatattacc aggattgaaa acagactttt aggaaggagc agcattactt   360
cgaaaagtag tcatctgctc ttgtcctcca atgtgtgtat tttaacaaat acaatttcat   420
tctatgttga ctctgtgttt ataatattta aagaaccatg aaattaagaa atctcaggat   480
tgttttagtg agaacttccc attcaaaata aaaaaaaagg gcaattctga ccctaagata   540
tcatcaattt tatgataacg caataagatt tccctttagg ttaagatgtc atgggtctct   600
agaccaagcc aagtttatct aactcattct gtatcttaag gtgcaatgct gagtgatggg   660
ggcaaggttt cctcggtgat accaaatcag atttgaagct tgccatcaag gatgcatcag   720
acaggaccat taattaaata agttaccata aatctcagct ggataaaagg agagttgaca   780
tagagtgtgt tcacttgctg atcacttatt cctctttgcc aaggcttctg ttgttggggt   840
tgttgtttta aactcctggt ttgtttgact gtttatttta tttgcttgat tgtttttcttc   900
cttttggtgt cctgcaacat atgctgagat ttcatccctc taaggatgtt agaagggggaa,  960
agagggtgga cagggcagca ggagggaaag ggaaggggtc attagtaatt gcaagtattc  1020
taagaaaata gatgaagtga atacaataag agggtactac ttggtatatt tatgtaaata  1080
aaagcattat ctgtaactgt gaattaactg ccaactatca ggttgttagt tgtaaagctc  1140
aataaaggct gtgctgattt gcatacagag gagggcatct gccgtgggag aggaacagag  1200
ggccctcccg agatgttcct tcctccctgc ggccagcgtc cccatcagca ccctgcccac  1260
cccactagag atcccatagg tgcccctaac attcttgtgg aatttcataa ggcagatcgg  1320
aatggcccat ccaataacag ctgcagagta tttgcctgag cgtggtgaaa actggcatgg  1380
agctctccca cagagaggca ttgggaaatg agaaaaataa gaagagagcc tagaaccttc  1440
caccccatcc acactcccac cctcctcaca gtcacagcag cagcaggttt caatgtaacg  1500
taattacttt aatgatacat ttctttagat ttagaattgc tcttctgaat ttaaaaacct  1560
tggtcagcca atagtttggc agtcttttca tcccaaattt gaaacgttgc ttactcatct  1620
attcccttga actccgtgac caatgctgcc tttgctgaag cgtctcaagt tcattcagcc  1680
atcatcggat tccaattcct gggaaacctc ttcggaggag ctgttgctgt ggatccgccc  1740
gtcgctcttc atactgtgga aagtcttcct gaaggcctcc atcatggcgt gggccagttt  1800
cttggcctcg agcttgctct cgcactccac ggcgtggcag tccatctggt aggacaggtc  1860
atcattgatc tccctgtaga cccaggcgaa gatgttgggg ctcacgttgt ggtcggcggt  1920
gcagtaggcg atgcgggcca cctggaaggt atccatgtgc actgtggcct cccctttgtg  1980
gtcgagatga tggagccaaa cttggaatgg ccggatttcc aggagggcat tggccggaaa  2040
gacatcctct cgggctagcg tgtgcttctt ccagagctca atgactggct tttctgtgca  2100
gcctgacaaa aactgcatgc cagtggtggg gactttgccc aggtaggtaa ccttgcagcc  2160
actgtgagtc cttgtcttca tcagcggtgt ggtcgtgcac agctcaatgg cctccggctc  2220
atggaagatg accgctggga gaggttcctt tttcagtgtt aagacattca atttagactt  2280
cagcatggtc tgaaagtgct gcaggcgctc cgtggccggc tgccacatct ccagccctg  2340
ggttttggca gaggagacgc tggcgagact gtcgatcgcg ccggggggcg aggggctggg  2400
gtcccgcttt acatctgggg tcggtgtccg cgggatgtgc gtcctggcgc tggccaccgc  2460
cgccgggtgg gcgtaggggg ctgcgagcag gaggaggcgc ggcgctcagc tgccggcaac  2520
ttgtacgaaa                                                         2530
```

<210> 3161
<211> 1214
<212> DNA
<213> Homo sapiens

1942

<220>
<221> misc_feature
<222> (1202)...(218)
<223> similar to gi1216486 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3161

```
ttttattaca aagaactgta tcaaaatata caagtctgtt taagaacaac caagaaatgc    60
agctgtttaa gggacaaatg agaatcaacc gttagagagc aggcagcctc tccccgccgc   120
tgtccactgc aggagacggc atcctcaggg ccacattttc cacgggacat ccttctgaat   180
aatttaaagg gtaagtccgg cacattacag gtcttcgcgg gagggcagct gtgtcgggct   240
ttctccttct gtggcttcag cctctgccgg cggcacacag gcatcttccg tttcttcgaa   300
gccgtcagga cacacacaga cgtagctccc tggagtattg tagcagtttt cgttttcct   360
cacacaggtt ttttctgcta gtgagcactc gtccacatct gcacactgtc cgtgctccct   420
cgcgtagcca gagatacact ctttacagtt tcctgggcct tcccctgtgc agcccacaca   480
gctggagtca cactcttcgc acgtgtagga gccgttggcg ttcttacaga actgcgcagc   540
gctgcaggga ggcggctcgg ccgcacactc gtccacatcc acacaggcgc cctcgtccag   600
cacccagccc acttcacact cgccgcagtc tctgttggtc aggcccgagc acgtcttgca   660
ggactcgtca caggctgtgc agatgctgtg ggtctcgttc cggagcgagc tgaagtagcc   720
gtccatgcag tcagtgcaca gcgggccctg gtaccccatg tggcaccggc aggacccgtc   780
gccctgtctg ctcccatctc cgctgcagtg gccattcccg ctgcagggcc tctgggatcc   840
gccctggcat gcgagacagt cgggaccgta ggttcctgga gagcagcaca ctttcagtgt   900
cttcacacaa aaccactcga ataagtcagg atattcgctc ttcagctgca gccaccaggc   960
ctccaggtgc tcctcctgcg cctctagcat ctgattgcat tcgaagtcgc tgctctcgca  1020
cagcccctcc aggatctcca gcaggcgaat ctcgctggac tcgtacttgg acagcgtctt  1080
ttcctcccaa gccgtgttcc cgccgccaaa gttcttcttt gcggtgtcca ccatcccctg  1140
gttaaacttg tccaccagcc cccggcaccg gtggcagggc gtcggcttct ggcggcctc  1200
cggcgcggac gaaa                                                    1214
```


<210> 3162
<211> 1236
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1073)...(304)
<223> similar to gi5853113 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3162

```
tttttttttgt gatgcagcat caggtgcttt taaatcagat taattcacaa taagtgatat    60
tgcaaagggt ctggggggctg tacatgggca ggggcttggg gagctttgta catggggctg   120
ggaaacaagg gaccctccag gtggaagggt atttttttaat aaaaaaaata atggagctac   180
aaccaccccc tcccccctcc ccgattaaaa agacacaaaa atagacgtct ctgaggtaaa   240
cggggagcct ggggcttaag ggtgtttaaa gggcttcaca ggtgccagag cttagaggtg   300
```

1943

```
tcacaggcac cggggtggct cctgcatcag ttggtagaac agcacgtagc cctcgctgga    360
tgccacctgg ttttcactga caggggagac acgagagtca ttgtagacat gccaaccagt    420
ctggcaccgg cacagggctg tgtagtggcc atagtggacg ctgcctgagt ggttgcaaag    480
ggcatacagc tggtatacag gacttccggc tttgtcactg gcaaagtccc ctaggctcag    540
tcgctgcagt ggaaagtcta cacctactga actttttttg atggagcctc gggaggcaga    600
aaatcgattc agatggagca cgaggattcg agggaatctt tgtactgtca acttttttggt    660
acttcgagtt ttctgccgac atcggtcaca cactggggca ttctccgact ctagctcttc    720
ttccttagtg aaaaggttga aacaatcccg cagagacacc ttgcccccag caaatccttt    780
cttgggaaa aggggaagaa aggtcaacat gttctgaatt ccttttcca actcttctca    840
atcaatccag gcttcagttc tgctccagaa acccacaggg ttcccgccca cactctgggg    900
gtgggtaggc ttgggtcaca gagcccctgt cctgtccacc ccggaatcct ctggaatccc    960
accttgggga tgggcaggga caggtcacaa aaaacctcga aggtcgtgga gcgataccca   1020
caggcctggc acttgagaca acttttcaac tggcccacaa acaggtctag acagaagcac   1080
agggacagga gaaaaggtca ttgttggatg ttatgagatg atttcttgga tttccatctc   1140
ttcctgcccc tttgcttgac ccttcctttc ccactaccaa cactcctaat caactcttca   1200
cacagcttca catttgcatc atccagtctt gttccc                             1236
```

<210> 3163
<211> 1330
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1274)...(421)
<223> similar to gi1389694 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3163
```
tttttttttt ttggctatag agcatttatt gcaaacaaaa ttgaggtaaa agaagctgac     60
ccagaaccca cgcccgtcca ggctggggaa gtctctactc gccccacacc aggccccgag    120
caccgcgggc ccgaagcagc ccccagagga cagacgggcc ctgcgcactg aggtagctgc    180
atcttaagcc cccatgagta caactgccca gggctgccca attcccagag gggaggagga    240
gagagaggca ggcaggggga gccccggctt caggtggggg cacaccccac accctcaaca    300
aacctcccag cctctcgggc tgggcacttc ctgcctggcc acccagccag ccatggggca    360
gcggggtggc caccagaggc gggcgtgctg gggtgcgagg tcactgctgc tccaggcagt    420
cctcggtcac cccctgggca gccagctcag ccagcacgtt ctgcaggtag ttggggtcgg    480
gatagccgtg gcccgtaatg ttgcggtcca tctctgtctt gtggtggatc tcgttccata    540
ccacggtgtc cgtctcaccc gtggtgcttg acgtgcccca ctgtgaagat gagccgcctt    600
cttccaggcc caccttcagg agctcttaag gactttgcgg gccctgggcg ttgtctggaa    660
ggtagcactg ggcggggaaa ccctctggca gtgaaacggc tttccgggat tggggtgctc    720
agggccctgg ataccatggg gaatgctgta aactatgagg atggtcccgc agtcctcgtg    780
gccggggagc gacatctgga accgtaatac ctccatcttt ccctgggggct gggtccccgt    840
cttctctcca tagatggttt tgcaggaggg acactgcaga cttccatcct tattgccgtt    900
gcagtacatg gccaggaggc acagcaggtg gaaggcatgg ctgcacttgg tgaggtggcc    960
cacagctagg gacccgattg ccttgctgtc agtcacatcg ctgtatccag acgctgtgga   1020
cagcttctcc atgcagatga tgcagtcctc atctgggggc actttcagct cttccgtgta   1080
gttttttatg acctgctctg gctctggctc tggcttcggg gtcgcttctg cgagcgcctg   1140
ctggactctg ctgggctttg gcatctgcat gggcacagtg gcagggacgc tccctgggct   1200
gcttgaggga ccgctgggga gggaggcact gactgcaccg gaggtggagg atcctggggg   1260
```

1944

```
caggtgctgc ggtcccaggt gggagaggct ggagcggtag aggggctggc tccccaggga    1320
aggaggagct                                                           1330



        <210> 3164
        <211> 1673
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (245)...(1322)
        <223> similar to gi2351568 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 3164
aaaggaaagt ggaagttgga ttctgaaaga tcgaggtgcc cataggaatt ttatggtcgt     60
cggattttga agacttgaac tagactgggg gttctccttg catttcttgc ctgttgccta    120
tctttgtcct ctctcttccg gcttcgagat gaatgtgcag ccctgttcta ggtgtgggta    180
tggggtttat cctgccgaga agatcagctg tatagatcag atatggcata aagcctgttt    240
tctctacaga catgactttg tgaaggagcg agggaaactc atagggcccc agagtgtaag    300
agacgacccc cggatccagc actgccggcg catgggccag ctgcagagcg agcttcagta    360
caggaggggg gcgaccagca gccaagccca gttccatctg cccatggaca tggtgcacct    420
ggtccatgcc aagaatgccc aggctctggc cagcgaccac gactacagga cacagtatca    480
caagttcaca gcactgcccg aggacctgaa gatggcctgg gccaagaaag cccatgccct    540
gcagagtgag ttgcgctaca agtcagacct gatcggcatg aagggcatag gatggctggc    600
gctgagatcc ccacagatgg agagtgcaaa gaaggctgga gaactcatca gcgagaccaa    660
gtaccgtaaa aaaccagaca gtatcaagtt caccacagtg gttgactccc cagacctggt    720
tcatgccaag aacagctata tgcactgcaa tgagcgcatg tatagatctg gagatgcaga    780
atccctgcac agatacaccc tgatccccga ccatcccgat ttcacccgag ctcgcctcaa    840
tgcgctgcat ctgagtgaca aagtctacag aaactcctgg gagcagaccc gggctggcag    900
ttatgacttc aggctggatg ccatcccctt ccagacttgc ccgggcatct tagggaattg    960
ccagtgattt ccggtacaaa gaggctttcc tgcgggaccg aggcctgcag atcgggtacc   1020
gcagtgtcga cgatgaccca aggatgaagc atttcctcaa cgttggcagg ctccagagtg   1080
acaatgagta caagaaggac tttgccaaga gtcggtccca gtttcacagc agcacagacc   1140
agcccggcct ccttcaggcc aagaggagcc agcagctggc cagtgatgtg cactacaggc   1200
agcccctgcc ccagcccacc tgcgacccgg agcagctggg cctcaggcat gctcagaagg   1260
cccaccagct gcagagtgat gtcaagtata atcagactt gaacctgacc agaggtgttg    1320
gctggacccc tcctggctcc tacaaagtgg aaatggctcg gcgggctgcg gaactggcca   1380
acgcaagggg cctgggtctc cagggagctt accgggggc agaagcagtg gaggctggag    1440
atcatcagag tggggaggtg aacccagatg ccactgagat tctgcacgtc aaaaagaaga   1500
aggccctgct gttgtgagcc atgtccaccc tgattcctga gaggccagag aggaagtttg   1560
ttcaccagag acaggcttca gatggctttg atttcggcaa gctggaatgg cccaccagcc   1620
catcccagat cttcctttat taaaataata actctgaaag cagaaaaaaa aaa          1673



        <210> 3165
        <211> 2567
```

<400> 3165

```
ctcgtcccac ctgacgagaa atacccacag gtgtggagag gcaggcccct ttcaggtgag     60
tctgtggctg ctctgcccaa agtcaaccct gatggggtga atgagggaag gggcagggtt    120
tacagcacct gtgctcatgg ccagccacgg ggtgaatgag gaaagggaca gggtttacag    180
caccagtgct catggccagc ctgtgaacca gggtgagctc caaacaaaat tccctcaaat    240
cccaaggaaa tgaggacgac agagaccata tgattagttc ttcatgaggt tatgtttact    300
acaaattttt attgttaatg tttctcatcc tgaaattatg ggatacagcc tagcagtttg    360
tcctcacttg gcagagtagg taaccctggc tctcacactg agcccccaag agtccttttg    420
gttttactgg tgtcagggat tacagtcagc aaaccccact catttacagg gtcaggtgta    480
cagggctgag ctggagggtt agggtcaggg cccctcagga aactctggtc tggcacagca    540
gcagcaggga tgccactctc cctttgtgga atccttctta atacaagagt gagaagcaga    600
agagcaaacc acaaaggaat tccagctcag accccaaagt acctgggaga gctgcaaaca    660
gccatggaga taagagaggc ggggagggaa cacagtgact gagtctgaga gacagcaaag    720
cacctctcca gcgaaagcca ctccgagatg cagcctaact tcctagtttg catcagcaag    780
atgagcaggc accaccatgg aaagagcacc tggggtgtag ctggttacca cagctcagcc    840
acattcccca gaaacggagg tcagccctcc atggcccagg aaaacatggg ggatgaaggg    900
ttggcacctg cagtgaccag atggagatac aatgcaggca gctgctacca tgcttggtga    960
ccagggtaca agcccctgat gagcttgcca tggcagccaa ggacactggt gccggaggaa   1020
cgacaggggc ctgcaaaggg acatccgagg aggggggaagc aagctgggag caagaccagc   1080
ccagctaggt ttcagggcaa cagcaaagcc ccagagacat ggaggcagat gagtcaacct   1140
tgctgggtga gaagtgagct tgcactgcat agggcaagaa gaaggtggac cccactcctc   1200
caggaggctg acagtctcag ccaggtacaa tggagggtcc aggtcacaag gaaggggggct   1260
atggtgagca tggatggaga aaggtaggct tgctgtgtgg aaggaaggag gaggggaggg   1320
gaagggtgag caaagtgggg ctgcaggcat caggctgtgg ctgatctgtg gtcagcctgg   1380
agctcagagg cagttctgga ttgacaggac acatggtgtg gccacacagg tggggggaca   1440
gtgatcccat agtccccagg gagtgactgg gaggcagaag attggaacag gacagagaag   1500
ggcaaagaag cacatggctc atgctttaaa ggtgttttta tgccaagaca aggggggcgag   1560
gacctcatct tgaggtgaga agaagtcgtt gccctgccag tccagtggtt tgaacatgaa   1620
tccagcccag tggacaggga aggcccaggg agaggtgggt agggagggca tcctgcagag   1680
gctggggaca aggaggatgg cacagaatgc catcacagcc aggggagtct ggcagggctt   1740
ggcggaggcg ccaaagttac cagcaagcta gaaggcaaca actgatagcc ctcacaggaa   1800
ccttcttgtg tagacccaca gaagctccct atccctgcct gctttgcctg actctgaaat   1860
gccagacagg cccatttcta ggtctgttct cctgaaaata catctttggt gctgggtaga   1920
tcctgaatcc tgagaataca agtttctgct cctggataca cagtcacatg acccagaaga   1980
tcccagccca gtggctaggc caaggctgca gtccactcct tcatccacag cccgttctcc   2040
ccaagggtct cacttcatcg aaggcgcaga taacacagta gggtggcctc cactggtctg   2100
cccatgctca gcaaccatgg ccaggagtaa ctgccatctc agggtgaga agcctcggtc   2160
ggaggagatg acacccactt agggttcaca gcccccttcct gtgtcagttc caggaacctt   2220
ggatcacaga catggcctca cccagacaag gacacgaccg tgcagcctta agatgtcaga   2280
gtcccaagcg cggggagaag ggctgcaagc cacaggtggc cacgtctggg attcaccagc   2340
tgctctgctc agacctggct tctccagaca cgctgtggcc ccagctctgc ctggctctct   2400
agcacctggg ggaggggggga ggggctgggc cttggtttcc ccgagagagt ccctttcaca   2460
catgggacca gccaacatga gctcatcagg tcacaggcag ccgcagcctc ctgccacaca   2520
ggaagaagat tcctgaccca caattatcat tgcaaaggag tattttg                 2567
```

<210> 3166
<211> 1893
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (284)...(766)
<223> similar to gi1055163 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3166
```
ctgaatccat ggaaaaacgc tttacaggac ttctgcttac cttttctcag aatcaccagc      60
cttcttcagc accacctttt tggggaagat ttacctagct gccaggaaga agaagaattt     120
tcagttcttg ccagctgcct gggacttctg ccaacgtttt accaaacaga acatccattc     180
atcagtgcct cctgtctgga ttggccagtt ccagcatttg atattataac tcattggtgt     240
tttgagataa aatcatttac tgaaagacat gcagaacaag gaaaggcctt gcttatccaa     300
gagtcaaaat ggaaattacc acacctacta cagttgcctg agaattataa caccattttt     360
cagtactacc acagaaaaac ctgtagtgtc tgcaccaagg ttcctaaaga tcctgctgtt     420
tgccttgtgt gtggtacttt tgtatgcctg aaaggacttt gctgcaagca acaaagttac     480
tgtgaatgtg tactgcactc tcagaactgt ggtgcaggaa caggtatttt ccttttgatc     540
aatgcatcgg taattatcat cattcgaggt caccgcttct gcctctgggg ttccgtgtat     600
ttggatgctc atggagagga agaccgggat cttaggcgag gcaaacctct ctacatttgt     660
aaggaaagat acaaagttct tgagcaacag tggatttctc atacttttga tcacatcaat     720
aaaagatggg gtccacatta caatgggctg tgactctcca cctcagcatt gcatcgtatc     780
atcattttcg ctacgaattt attttcaac aataagcttt aacttaattt gggggattaa     840
cactttgct gagggagaaa aagaaaacat acattatgaa gcctttccaa aattaggtgc     900
ttggtaatca cgttaatggt ataatttttt tttttaata tctggagaac attaataaca     960
agttaaatta ttctttagtg gtcatttttt aagtgcacaa ttaataagaa gcacaacttg    1020
ttcacaaact cattcagaaa tgattctccc aacaatgcat atcagctatt cattgatact    1080
tagagtgggt gtgatttatt tgacatttta ctgcttcttt ctgtctgtgt gttttaattt    1140
gcatctgcca agcataatgc atctttttc ctctgccatt cttgtgttga ttggagaatt    1200
tttctgtatg taattagaaa aaaatgtaaa acatgattta tgtgaaatac tgtatagtaa    1260
aagttggtct aatagtagaa ctttaaaatt ttttcttatt gtgaggaatc tgttaaaagt    1320
ttaaagcttt gctgaaaact gaattcattc tcaggaattt cataaatctt ctccccaggt    1380
aaataattga aatagctgta aaataagtag atagctgctg ttaatataat acagtacatt    1440
ttggggggca tatgtgtggt tggggggtcc ttaaaaatca aaatttgcca tttcagttgg    1500
atgaattact agaggtaata acaaatctta ctataaaatc aagaggttta agaacataca    1560
ctgggcagat gttgattccg tgcatgccca ccttttatta ccaaacaagg ttttgtttat    1620
atgattgtat tagaaatgct cagacttccc cagaaatgaa ccataaattt tggaacttcc    1680
tttcagctca agaggttcag ctatattgta tttgtgcagt ggtaatcact acctatttct    1740
ggctcgggtt tccctaaaag gaaaaaaaag gcggcagtgg gtgatgaccc tcatggaatg    1800
agccacgctt cctgcattcc tccttaggaa ctggctgtgg aaaaccaatt tatggtttgc    1860
aggggtttaa aaatccagta aaaatggggg atg                                 1893
```

<210> 3167

<211> 952
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (40)...(851)
<223> similar to gi168455 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3167
```
accaccactc cagctttgca caaggagatt tgttctgatt tcacagtttc agtcaccacc      60
cctgtgccca agcaagaagg tcacctagac agcgagagcc caaccaatat cccactgaca     120
aagcaaggag gttccaggga tgttcagggc ccagaccctg tctgcagtca acccatccag     180
cctttgtctt ggcatggaag cagcctggat ccccagggcc caggcgacac cctaccaccc     240
ttgccatgtc acctcccaga ccttcagatt ccaggtacct caccttgcc tgcacatgga      300
agccacctgg accatcggat cccagccaac gccccactgt ctttgtccca ggagctccca     360
gacactcagg ttccagctac cacacctttg cccctgccac aagtcctcac agacatctgg     420
gtccaagccc tcccaacttc acccaagcag ggaagcctcc cagacatcca gggtccagcg     480
gctgcacctc cacttccgga gccaagcctt acagatacac aggtccaaaa actcacacct     540
tcgttggagc agaagagcct catagatgcc catgttccag ctgccacacc tttacctgag     600
agaggaggct ctctagacat tcagggcctc tcacccaccc cagttcagac caccatggtt     660
ttgtccaaac caggaggctc cttagcctct cacgttgcca ggaatctatg ggccttcaca     720
gggccagggg tcctgatgcc ccttccacat gtgagccagg acatgaggct tccctgaagc     780
aaggatttca gccagatgcc atagaccctc agaacttgac ctggaagtcc agacactgaa     840
cgcaggcctc aaaactgctg cggccttcca actcctggta tctgcatcgg cgaatggccc     900
ttcttgcctt gatccacagg gatggggaag ggaatgtcat taatgttttg tt            952
```


<210> 3168
<211> 3036
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(1310)
<223> similar to gi4959382 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3168
```
ggctttgttt atctccatca tcatccaaac agactaccaa tcctgatccc agcccaatct      60
tgggcccttg aaaaaataac ttaacatcct aactacaagg gagaaactcc tttcaaatta     120
atgaacctgg ctgacttata tagccttaaa attatggaaa tgacaagggt tacaatgtca     180
gaatgagcag taaaccttcc ccagtcctat cagagcaaac tttctggggt tgcatcccct     240
cagaaaccca tttggggccc aatctcaatg cacatatcag tgcgcaaagc actaaaattc     300
caggcaacac tttgtattga gagaagccaa aattttggtc aggccctggg acatctaaag     360
tcaccaatgt aactacacca tacagattaa accctcacat gatcatgtaa gctatgcagt     420
```

```
tacccaagct gcatcattta gaaaacctgt acagttttta tggaaaccat ccctagtcaa    480
ggacacttta aatatatagt ctaaataccg ttaaggtagg cccactagct gtgttcacat    540
tttcccttgg ccaccttacc agggacttta ataacttggg aaagtgaaaa caacaagcta    600
acccacatgt tcaccataga aaacaatttt gtcttgaaaa acaaggactc tttttcccgt    660
gtgggaccag ttcctactta tgttttacca gccaattgga ctggaaccta tacagttgtt    720
tatttagccc ccgaaattaa tatagctccc aacaaccaat ccttcattat acttttaact    780
gcaaccacca gacacaaatg agccatccaa ctgataccac tttcggtaga gctaggaata    840
acagcaggag taggaatgag agttagcagc cttgcagttt ccctatccta ttaccaatgc    900
ttgtccaagg attttatgga aagcttaggt gacattgccc aaaagtatca tcaccttaca    960
aaatcagata gagtctttgg cagtggtggc tttgtaaaat agaaggggac tggatctcct   1020
aaatgctgaa gaaggtggct tatgtctttt tcctagagga agaatgctgt ttttatgtca   1080
accaaacagg attagtaagg gatgccaccc aaaaactagc cgattggtac cataagatat   1140
gacaacagct gtctgagtca tggggcgcct agtcaaaatg ctaatttggg gctcacatct   1200
ccttcctctg gccagtccac tattaattat tatacttgcc ttggctttg gatcatgttt    1260
ggtaaatctt ttaaccagat ttatttcttc ttgcctagag accattatga taatgcagca   1320
gggccaccag tcagtttcag ataatgatgt caaccccggc caccaagaag taaccttgtc   1380
tccactagac agagcaggtt gcaggaattt agccaattca gaggtcttgg tctccataat   1440
ttggaatttt ccttcggatt tgatcaagtt ggatagagtt ggtcaaaccc aatgggaaaa   1500
agatgaaaac aacaagaaac agaaacaaac agcaacaaca acaacaacaa aaacaatgca   1560
tttaattaaa ttaagatgag ctcatgctgg agtagggtgg actctgaacc cagtgggaca   1620
agcgtcctta ttaagaagag ggaaatctgg acacacacag agcagagacc gccgtgtgaa   1680
gatggaggca gagatcggag agatgctgcc acacgccaca aatgcctggg gctcccagaa   1740
actacacgga gcctccccca gcggcttcag caggagcatg gctcggccaa cactttgatc   1800
ttggtcttcc agcctccaga acggtgagtc gttttcctaa aattcccttt tccactggtg   1860
tgtggtgcaa gatgaggcac attttccatg gatggtgaac agagggagga gccttttgat   1920
cacaaccagg tcaccccact tctaagccac tgtgcctcca gccccacaag actaaggaga   1980
gagagcgcag cgtggtggag agtgagctgt gctgggacca ttgtttccgt aacctcgttt   2040
tctgtgtcca gctgacacac cttcaaagtg gcatcaggtc ctaaactgta gcttgcaatg   2100
tgcctgtttc cagaaaccaa ggtgaaagtg cttttagaca gtgttcccat gcaagagtcc   2160
cttcccagct tttttctgga aatgcatgtt tctctgaact ctgagtccca agaaaaatca   2220
cttgagacac caagaaaatg ggggaagtgc taaaattgtg tgggaattca agcttaacaa   2280
taaacatcaa gacatttttg ataaaaatga atccactgac atcggggagg agcaagagaa   2340
cagcacgctg acactgggtc agaggctaag accgacattt ctgggaacca ctcccggaag   2400
ggcacagagg agacgctttc agcctctcat cagccagcct ggcctgtagc tgctgcacgt   2460
tatgagtgtg ttcctggcat gactgcttct aacagcgacc atttcattaa gttttttaagt   2520
gcctggtaat tgcttggtta tgaccggtgt ctgctccatg gcagcctctt cctgaagaaa   2580
tgctgaggca gtgtcacgct ggtgtctgtc ctccttacag aatgcctgaa cagttccatt   2640
gactcaaagt gaagatcaaa agaaccaaat gacagcaata gccaagtgta atcatcagta   2700
accctgtgtt ctatccacag gtaaaaaaca atcatcctct tcattatggg tttcaatttt   2760
aaatgtaata catttttaga aatgcctatt ccttttatata tctctttat ataatctagg    2820
ttattctggc tcttaggtct tcatttagct actgaaaaga tttgatctca aatcaatgat   2880
ctaaccaccc atgaccatct cccacctctc tccccgtaca ccccccagca tgaattctgg   2940
gaactcaggt aaaatgcttt ctggaaacct gcctgtatta gtctgttgtc aagctgctaa   3000
taaacacata cccgaaactg ggtagtttat aaagga                             3036
```

<210> 3169
<211> 1387
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1388)

<400> 3169
agagatcgcg gagagacgca taacgcagcc cgctcctcca gggccctcca ggccctccgg   60
ccccgggccg gcgggtgaac tggggggccc cgggacaggc cgagccctct gccctgcaga   120
taacggaggc ctctgctgtg gctgcccact ggctgtgccc gcccactggc tgtgcccaga   180
ccttgaagcc gcagcgaacc tctctttccc accccacctc ggtgactaat ggcggccgtg   240
gcgtctccca gcccggaccc cgccggcacc cgggtctccc gacccaagcc tcgacgaaac   300
ccccgcagag ccgccgggac gcagcgcctt tgggcggcgc tgggcgtggt gggccgggaa   360
gtatggcggc agctcgaacg ccgcgcggcg gaggccatta aggcgtggac ggcccgggaa   420
ggcggcctag ggacgcaagc aggctcggcc gcctctttag gccacggagc cgcgcagatc   480
cggttcccgg gtgaccactc tgtcgccatt gggcgagacc tacctagtcc tgacgacaac   540
ggacaaaggc cttaaggggc ctggaaggtg agcgaagtcc cgaacgacga cgggtggaac   600
ggttagcggc catcgggcgg ttggtcttca ttctaccaga ctttgctgtc ggaagagaga   660
aatggtagaa tgacaggcca cgtttggccc gttggaaatg cccaccaccc tctgggaaga   720
tttactggcc gtttatggaa ggcctgtgta tataatatga aaaagctgct ctcaactcca   780
ccccaacctt ttaatagaaa acatttgtca catctagccc ttctatagat ggaaagaggt   840
tgccgacgta tgataaaata gagttagaaa gttacacatc ttgtaaattc tcatttgttt   900
aaaagaaatc atagaaaata catgtcttct ggagatgact tttggaaatg gagttgttaa   960
gacggcctct ggaagcgata cgtccacgtt tgttaagtgg gttagatgac atggagctgg 1020
aagacctgag aaggaagaga agaaggttct atgctagact ggtcatattt agaagacatt 1080
ttcatattct atccattgtt ttgtgtgcat tttattcctc actactgtgt atatagttga 1140
caatgctaag cttttttgaa atgtctcttc tttttagatg ttctgaagtg cctgatatgt 1200
taaaattaga ggtagcaaaa tcacattttg taaatacctt tttgttacaa ttcataggaa 1260
atattttttgg gggggaatgg ccaaatcacc tgttgagtaa tactcattgt gtttgtgcag 1320
tggttcangg gaggagagag gtggggggggt gccgttggtg ggagagacaa aaagagggag 1380
agtgtgc   1387

<220>
<221> misc_feature
<222> (2735)...(727)
<223> similar to gi5689399 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 3170
tttttttttt tttctatata taaaatcttt attacaggca gtattggtcc atacacttaa   60

```
cacaatacca acagtacacg gtttaatctt tcaaaatcat catttaaaca gcaaaagacc    120
caagaaataa aatttgagtc aattattttt caaaatattc tcaatgcaca ttatccttaa    180
ttcccttatt atagtgaaac atacaaatac agaaaaatac cccatttaac aaatactagt    240
gttaaatggt tatttggctt aaaatctgag ttaagaaaat cctttttagc aacctacata    300
cagataagta gcaaacttta ttatattaaa caaattcatt ctgctaaaac atgtaaagaa    360
tttcatccat catgtattct gatcccagta caagtgttta ttctcttacc gtcacgattc    420
ttatatgaag gaccaactca aagagttgtc ctagatataa ccttatcctc ttccccaaca    480
cacttcatcc aaaagtctgt tcaacagatg gcaaccgggt agcagtcact tcaccatctg    540
atgccagtgg ttccgtgaga gcgtggccag gcctgtgaaa cagcccattt tcctacctac    600
tgtgggttgc tgctcaggag gaacgatata cgccaataca agcaggaaat ctgcagctcc    660
tctgctatgt gcctcagaac actttcaatt tttctggtca atgctctgat taggtatcat    720
acataaaagc cagcatatta gtttaaatct ttaaacaaaa aactatattt tccaaagtca    780
ttatcatttg ggccaattaa gtgatctttt cgtgctttgt tgagcttcat ctttagggca    840
tctcttcttt cttcccattc atgaagttcg gcatttccat gtgcaaattt acagctgttt    900
ccttctgggc aggtgccatt catataccta tcacaaatac tgaaatagcc tgttgggaag    960
cggtgctgcc agcagtactg gtcgtcctcg gtgtggaaaa ccttctcttt gtgcttctcg   1020
gaggagatgt ggccctgcca ctgcttctca ctgttgcagt ttttcccaca catccagcag   1080
tgaaagtcca ctgtaacttc agcataatct gttggcatgt gaatttgttt tccattttcc   1140
ttgtttgact gactggctat gtcttcactt ttttcatttt tttgactctt gagccatagt   1200
tcgtaaaatt gctccatatc ttgtatccca ttctccttca tgtaagtcca aacttctctt   1260
tcctcaggac tatgagcaaa ggaacagttt cccacatatt gacatttttt cccagaagca   1320
atatggttgc acagatcaaa ctgtaaaggc atttgtttct ttgtggggag aggacggatg   1380
ttcatccact tcttacgttc aatagacatc actctcatcg cacgccggtc tttggtccac   1440
gaatgccttg cttttgcact acaatatttt ctgtttttgt ctggttcaat gacttgaccg   1500
tttctcagac actgggcgca cacaaacttt atcttcatat taagaaatcc aggcattatt   1560
tgattaccaa gtacctgcgc tccaggtaca tttgcttcca aattctgcca atatcgttta   1620
gactcttgag caatagcatc atgtgagata cctgtttcat tttgcattat ccagactttc   1680
agttccacaa gactatgggc ataaaagcac tcatcttccc ttaaacagcc ataccgaact   1740
tcatgtcgac ataaatcaag ctgacactga ccatgaaaag aacgtatttt ggagtatttt   1800
actgttgtct ctcgcaaaat gtggacaagg cacttattgt cttcaaactc atgctttgta   1860
accgggtgag aacaagcagt agaattatct ttatttcttt tacttatcat tctaggctta   1920
tgatcaaaac atttctcaca aaggaatata aattccccaa gatgctcctg agaagtttg    1980
aacacagtaa ggttaatctt tccattgccg ccaaagaaag cctcccggct gaatgctcct   2040
ttccgctcca gtgtccacac atctatctcc tcttggcaat aagcaaacgt gcagtggcct   2100
gaatatctac attcctcctc agcagcaaca tctttacata tataatatgg tccttcataa   2160
tttgtttttg ttggtcttgg acgtattttt ttccatgatt tatcttcaac attctttatc   2220
ctaccgatta aaatatcttt cttacactta tgatctatgt tagcatggta agtgaaatcc   2280
attaacttag ggcctgattt tacaaaacag atctggcaag cttgtctcaa ttcatgggtt   2340
ccttcgaggg gatgtcttgg agtcactgat gaagatggtt tggtaactgc acttccaaaa   2400
aagtttccaa agtcatttct aggctgactt gaaattccca ggaaattctc tgaagcaaac   2460
aaactacctg gtccattcat aagtaaaagg gaagaattac tgttgttaaa gcggtgttcc   2520
ctctctagaa gttgaggtgg acagatctcg tttggattca ctcattgaaa atgaatttaa   2580
agaagaacag aaatcttcta aggatgaagt caaaggtgga taaaattctg agaaggaggg   2640
tggaggagca tacctcgcac caatgggtaa ggttcctaac agcgatgccg aaaagggcat   2700
gctaggagag acactggctg tctgaagggg tcctctgact aaag               2744
```

1951

```
<222> (1)...(1146)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (952)...(549)
<223> similar to gi552195 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters




<400> 3171
tcaaaaaaaa taaaaataaa atacaaaaac aactttcccc cataccactc cttatcccac      60
accccatcc tctatcccct atccctatc cttaatctct ttgtaactgt tgctcactcg      120
ctctctcact ctcatgtgtg tgctctctct cacatacacc acacacacac acacacccca     180
cctacataat ttcttctctt acacctttaa tataaatatc tgagttttgg ttcagttttg     240
caaacattta aaaggcaaac atggtatttt gcttgtttca gcatttaata aggtagtgca     300
tacttctttc atatggaagg aaaacatcat attaagttaa tatttaaacg tacacaatta     360
taatttgcaa aaaaaaatca agatgataat ttcttaaata gtaaattgaa ataaatgata     420
ttttcctagc atgcttgtca ttcagcaata ataagaaact gagataagaa tgcaggcagt     480
tgaagttcac ttcagcctga gtgcaagtat acacaaaaca gcaaaaatat tacatagaaa     540
ataaatgttg tccattggat tgagtatggt gctaccattt gtcacagtgt tcatattcat     600
agttgtggct atctttgggg tcactgctgt attcagactt gtcttggaat ttggagtcat     660
ctagggattt gaggtcattt tgagatttgg gcttgtccca ggattggtgc taccatttgt     720
cacagtattc atattcatag ttgtggctct ttggggtcac tgctctattc agacttgtct     780
tggaatttgg agtcatcttg ggactcgagg tcattttgag atctgggctt atcccaggat     840
tggggttcat tctgggattg gtgctcttcc tgggattagg tctggtcccg ggattcaggc     900
ttgacgcagg attggatact gccatagaat ttgaggttgt tgatgttgaa gtttgtcccc     960
ggaatgttaa caaacatgaa gagcaggcca atcggtgata gcttgaacat catcctcctc    1020
ttttgatatt tttctccgaa gagtaagaat tcagtctttc tccagcgaca aagcgaccgc    1080
ccacgcgtcc gcggacgcgt gggcggacgc gtgggtcgac acgagaanna agccnggtag    1140
tcatt                                                             1145




<210> 3172
<211> 569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(504)
<223> similar to gi4894364 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters




<400> 3172
aaggccttat gagtgcagtg tatgtgggga attgtttagg tacaactcca gccttgttaa      60
acattggaga aatcacactg gagaaaggcc ttataaatgc agtgaatgtg ggaaatcatt     120
taggtaccac tgcaggctca ttagacacca gagagtccac acgggagaaa ggccttatga     180
gtgcagcgaa tgcgggaaat tctttcgtta caactccaac ctcattaaac attggagaaa     240
```

```
tcacactgga gaaaggcctt acgagtgcag agagtgtggg aaagccttta gccacaagca    300
tatacttgtt gagcaccaga aaatccacag tggagaaaga ccttatgagt gcagcgaatg    360
ccagaaggcc tttattagaa agtctcacct ggttcatcac cagaaaatcc acagtgaaga    420
gaggcttgtg tgctccatga atgtggggaa ttctttagct aaaactccaa cctcattaaa    480
catcagagat ttcacaatgg agaaagttta ccattgacta ttgtaattgg gtagtaatgt    540
tatataaatt ccacattttt atgcaacta                                      569
```


    <210> 3173
    <211> 2371
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (224)...(1153)
    <223> similar to gi1255425 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters

    <400> 3173
```
ctacatagta aacttctctt cagtagggta aacgaatgct aaaactctga gacctctgtc     60
agctgaagtc ataagaaaac tgcatatttg ttggaagaaa ataaagaaat gaagagctgc    120
taagcatgaa taaggactgt ctctagaaat taaagggaag cttttaataa acacatattt    180
ttctctcccc gaacttccct cccccaaatt caggagttgg ccgaggaaaa gatatctcca    240
ccatcacagg tcatcgtggg aaagacatct ctactatttt ggatgaagaa agaaaagaaa    300
ataaacgacc ccagagggca gctgctgctc gaaggaagaa acgccggcga ttaaatgatc    360
tggacagtga tagcaacctg gatgaagaag agagcgagga tgaattcaag atcagtgatg    420
gatctcaaga tgagtttgtt gtgtctgatg aaaacccaga tgaaagtgaa gaagatccgc    480
catctaatga tgacagtgac actgactttt gtagccgtag actgaggcga cacccctctc    540
ggccaatgag gcagagcagg cgtttgcgaa gaaagacccc aaagaaaaaa tattccgatg    600
atgatgaaga ggaggaatct gaggagaata gtagagactc tgaaagtgac ttcagtgatg    660
attttagtga tgattttgta gaaactcggc gaaggcggtc aaggagaaat cagaaaagac    720
aaattaacta caaagaagac tcagaaagtg acggttccca gaagagtttg cgacgtggta    780
aagaaataag gcgagtacac aagcgaagac tttccagctc agagagtgaa gagagctatt    840
tgtccaagaa ctctgaagat gatgagctag ctaaagaatc aaagcggtca gttcgaaagc    900
ggggccgaag cacagacgag tattcagaag cagatgagga ggaggaggaa gaggaaggca    960
aaccatcccg caaacggcta caccggattg agacggatga ggaggagagt tgtgacaatg   1020
ctcatggaga tgcaaatcag cctgcccgtg acagccagcc tagggtcctg ccctcagaac   1080
aagagcacac caagaagccc taccggatag aaagtgatga ggaagaggac tttgaaaatg   1140
taggcaaagt ggggagccca ttggactata gcttagtgga cttaccttca accaatggac   1200
agagccctgg caaagccatt tgagaacttg attggcaagc ctacttgaga agtctcagac   1260
ccccaaggac aaccagcaca gccagtgcaa gccttagcct ccaaatggga caagtggtgg   1320
ggcaggaggc aggagcacca gaagaggagg aagatgagct tttgagagtg actgaccttg   1380
ttgattatgt ctgtaacagt gaacagttat aagacttttt ttccattttt gtgctaattt   1440
attccacggt agctctcaca ccagcgggcc agttattaaa agctgtttaa ttttcctag    1500
aaaactccac tacagaatga cttttagaag aaaaatttca acaaatcctg aagtctttct   1560
gtgaagtgac cagttctgaa ctttgaagat aaataattgc tgtaaattcc ttttgatttt   1620
cttttccag gttcatggtc cttggtaatt tcattcatgg aaaaaaatct tattataata   1680
acaacaaaga tttgtatatt tttgacttta tatttcctga gctctcctga ctttgtgaaa   1740
aagggtggat gaaaatgcat tccgaatctg tgagggccca aaacagaatt tagggtgggg   1800
tgaaagcact tgtgctttag cttttcata ttaaatatat attatattta aacattcatg   1860
```
```
                              1953
```

```
gcatagatga tgatttacag acaatttaaa agttcaagtc tgtactgtta cagtttgaga    1920
attgtagata acatcataca taagtcattt agtaacagcc tttgtgaaat gaacttgttt    1980
actattggag ataaccacac ttaataaaga agagacagtg aaagtaccat cataattaac    2040
ctaaattttt gttatagcag agtttcttgt ttaaaaaaaa ataaaatcat ctgaaaagca    2100
tttgtacagt aaaatgtata atgaagcttt gccaaccaga ctgtgctagc aacaaatttt    2160
tttaaataag ctttatgcag tggtaataag gtggcctcaa atatattgtg tctgatggag    2220
agttattagt gaaatgaatg tggtctttct taaggcctgg atggactgtg tagcaattcc    2280
ttgatgtcca gtttggaaag atgtactctt ctcaacaaga aaaacttaaa tccgtcgtgc    2340
ccaaatatag ttgtgctttt atttccaaaa a                                    2371
```

<210> 3174
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (736)...(93)
<223> similar to gi2065209 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
        <400> 3174
ttttaacatt tttaatgtac tggtattgcc atttgtagca gatgctgatt ttaagttaaa      60
caatacatgt catgctatag gtcaaatatt ggggctctgg ggtgtgtaaa ctgggctcaa     120
gtctgggaaa ttgattgagg ggccgtgatt ctgttttaat aattcaaatt agtattttgt     180
ccatttgacc tagaagtttt ctgcttgtat aaattaagtg ggaatgcagt aggcttccta     240
tcagtttcac ttccaggaac accataatta attagcccaa tgcccaagtt ctacacaagt     300
cagactattc tgattgctgc tttgcttctg ctgtcccatt acagtagcta cgcccacctt     360
acctttgata gttgagtgcc cgtcacttgg gcccctgcta ccctccggat ccagttattc     420
ccattttgta tttaaatttt gtagttgagt gactgaggtt cccactgtta gatctgacat     480
acagagaagt gcaattatag ggttcttcaa agatgtagct gctgcccttg taaatctgtt     540
ttgcaaggca tcagtcaagg gtatatcttc tggaccctcc cagctgggat gagtaggtct     600
aaagtgacta atccactcca ccttctgaat ctccctaagc ctttggatcc cttcctctac     660
attaaaccaa gggagatcag gcatttccag ctcactcaca gtgggccatc ttttaatcca     720
tatttcagct aaccacgc                                                   738
```

<210> 3175
<211> 1433
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (42)...(1375)
<223> similar to gi2105420 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
      <400> 3175
gcaagggggca gttggtgaac ttgctgcctc cagagaattt tccctggtgt ggaggcagcc      60
agggacccag gatgctccgg acctgttacg tgctctgttc ccaagctggt ccccgctcca     120
ggggctggca gtccctgagc tttgatggcg gggccttcca ccttaagggc acaggagagc     180
tgacacgggc cttgctggtt ctccggctgt gtgcctggcc cccactcgtc actcacgggc     240
tgttgctcca ggcctggtct cggcgactcc tgggctcccg gctctcaggc gcatttctcc     300
gagcatccgt ctatgggcag tttgtggctg gtgagacagc agaggaggtg aagggctgcg     360
tgcagcagct gcggaccctc agcctccgac cactgctggc agtgcccact gaggaggagc     420
cggactctgc tgccaagagt ggtgaggcgt ggtatgaggg gaacctcggt gctatgctgc     480
ggtgtgtgga cctgtcacgg ggcctcctgg agccccccag cctggctgag gccagcctca     540
tgcagctgaa ggtgacggcg ctgaccagta ctcggctctg taaggagcta gcctcgtggg     600
tcagaaggcc aggagcctcc ttggagctga gccccgagag gctggctgaa gctatggact     660
ctgggcagaa cctccaggtc tcctgcctca atgctgagca gaaccagcac ctccgggcct     720
ccctcagccg cctgcatcgg gtggcacagt atgcccgggc ccagcacgtg cggctcctgg     780
tggatgcgga gtacacctca ctgaaccctg cgctctcgct gctggtggct gccctggctg     840
tgcgctggaa cagcccgggt gaaggcgggc cctgggtgtg gaacacctac caggcctgtc     900
taaaggacac attcgagcgg ctggggaggg atgcagaggc tgcgcacagg ccggcctgg     960
ccttcggagt gaagctggta cgaggtgcat atctggacaa ggagagagcg gtggcccagc    1020
tcccatggaa atggaagacc cccccactca ggctgactat gaggccacca gttcagagtt    1080
acagcccgct gcctggaact gatgctgacg cacgtggccc gccatggccc catgtgccac    1140
ctcatggtgg cttcccacaa tgaggaatct gttcgccagg caaccaagcg ggcaggccgg    1200
ctatgtagtg tataagtcca ttccctatgg ctccttggag gaggtaatcc cctacctgat    1260
ccggagggcc caggagaacc ggagcgtgct tcagggtgcc cgcagggaac aggagctgct    1320
cagccaaaaa ctgtggcggc ggctgctgcc aggatgccga aggatacccc actagcaccc    1380
ctgagggggt catgtggtca ataaaagtcc ttaggtgctg cctaaaaaaa aaa           1433
```

```
      <210> 3176
      <211> 1062
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1)...(1063)
      <223> n = a,t,c or g

      <220>
      <221> misc_feature
      <222> (1010)...(306)
      <223> similar to gi311833 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters
```

```
      <400> 3176
tttttttttt ttccagtcat taatgatctg tccttttgag atcttttact tcagaggaag      60
atttaggcaa gagagcaaca tataatagtc agtgatacaa agaagggcat ggaacatttg     120
gggaacacag gggtttggag ggcctgaagc acaggggtgg tggtattaga aatgtgggaa     180
```

1955

```
atatgggcca tgagcctccg gacagaatgg ggtccaggaa ggacagcatc acacactggt      240
gctggaattt ggggatcctt ctgtgggcaa cctcagcagt ctggttattg gccctttttt      300
cttacagcct ggaaaactgg accaagtttc tattgatctc agcgaccgac cggcagcctg      360
taaggggcca tggaagtgtg gaactcattt gttaaaatgt tcaaaacttc cttaacacca      420
tgttcaccct tgcaggcaag gccccatagg attggtctcc caagaaaaat gcacttagct      480
ccaagggcca gagccttctg cacatcattg ccagttctga ccccggcatc caggtagtac      540
ttcatgttcc cctattcagc agctcctact tctgtcaaag catcaattga agcaagaacc      600
tcatcaagct gcctcccacc atggttggaa acaatgatac cctggacatt gtgcttcaca      660
gctaactctg catcctcttt tgtcaaaatc cctttcagga tgatgggcaa tcgagttatg      720
ctctgaaacc aggagagatc attccagcag agagaagtgc tgataggagt catctggaaa      780
taaggtattg catttccctt tttaggtgat tgaagatctg ttagtgttaa gttcctcctc      840
aactggtttc gaatgtcatg tcgcctgttg ccacatacag gtgtatccaa agttattacc      900
aaagctttga aacctaggga ttctaccctc tggatcaact gtttgttcag ctgcaggtct      960
ggatgcacat agagttggaa ccatcggagg ccttcgggag ctcttgctgt gctcatttcc     1020
ccgaattcca ccacnctgga ctagtgttct caaaannntc ga                        1062
```

<210> 3177
<211> 914
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (694)...(13)
<223> similar to gi433012 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3177
```
tgccagaatt cggcacgagg aaatgagctt ggctgggcac cctctctggg ccttggaggc       60
aagcctgggc tcctctgaaa atacaggcag cttcctttcc ctgacttgcc tggaggagcc      120
aggccctgtg gtgcggtctg gctctgaggc ctgtggtcct gcttgggact ggcagtctta      180
ggctgaggga acattttcca gagtatagcc gagggacaga atgtctcagt aagacgggct      240
cggaggggaa gtgttttgga aaggcctctg cttgctctgg gaggcgttca ggatgctgag      300
gttttggaaa tctatggcgg ctcttcacaa ctgctcccag ctttgggagg aggaatagac      360
gggtgctcgt ttcctcgggt tcagtggcaa aggtgaagac cagcactgcc gacctgggac      420
ctgggcctct cccgggcctg gggaggacac tggactttga aggggaatgc agcctagaag      480
gcctggaccc tggagtcagg agatgctgct cccatccagt aagccctggc tggagctctt      540
ctgggcacca accctggcat aaaaccagtg gagcctctgg cctgcactc aacagtgcct      600
ctgatggagc aggttcagct tggttgtgac ctctgctaga agccctccct ggcctccctg      660
tgcactgagc tggtggttcc tcctttgcgc cccaggtaca tgctcagatc tgtgtaccct      720
acactttgtc ctccagcttc gtgtttggat gttcacaact cccatgagaa gggcccccga      780
gagctggcac agtgcatgtg tttcctctcc agacttctac aaacctggca cataattgtt      840
tgctggaaga tggcatgttc ctaaaacaga ggaagtagaa cctgaataaa gcgaaatcca      900
acttcccaaa aaaa                                                        914
```

<210> 3178
```

<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)...(231)
<223> similar to gi183441 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3178
```
tagtaacttg agggtgatgt ttccgagggt gctccctacc cacactgcag cggggtcctc    60
gtgtgctcgc ggtgcatttt tgcagctggc gacttgaact gggttgtgca caagcaccat   120
tggtttgcca ataagtttaa cctggatgtg aacatagat gtggacctct tcgccatcca   180
gtgtttgggt gagcaccgga ggcataaagc tttatagacc ttaaaacact gaccattata   240
ggcaatctta gggtgcattt tgtgcatcct tcttattatt tctatttagt tcctcttgcc   300
aataagcatc agaaaaattg tatggagtcc tctttggggt agggatgcta agtcttcatg   360
cagaaaagct gcatggtttc tgcagagcac aattggctag aaaggctgta acattaaatg   420
tttatctaga attaacatga gtaggagtaa aagtggctgt ggcatcaggg cgggcagcaa   480
agcattctgg agcgaggggg ctagggtgac tggggaagag gctgatgaaa aaaataaatc   540
aattaaaaga gttcagggac ttaacaaaat gagatttgac ctgtgccaaa actattttga   600
gaattttaaa tatgacattt ttcctggtat gaataaattt atagcaacaa acaataataa   660
agatacaatt gatcttgtat gttatgtatg ttgacagaga aatttgattt tgctctaaaa   720
aagataatag tgatcaacat agatggagaa caatgcc                           757
```


<210> 3179
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (759)...(136)
<223> similar to gi1492075 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3179
```
ctgtaggaaa agattaaaaa aaagtgtaag ttccttctgg ggattactgg ggtagggctg    60
atatttctcc ggactgcttc aagtgtgacc agggactgcg tggacacctt aaagaaaatt   120
ttataatgag tctagtaagt ttcgggtcta gggtgcattt ttatgtagct aacaaggtgc   180
cagttagcgt atttttgagc ttggaactgc cctaataaaa taagttctct aaaaacagta   240
atcaggcata ttagctttaa tgtaggtggc gatgagtttt taggccaagg aaggaataat   300
gttttatgta ccaaagcctt ttgtccccat tttccatcat acgaatagta ttccctgttg   360
ctaagccgat gatacattac ccttttcccc ataggtgtga gtggcggtct gaaatggaga   420
agttcaatag ttctgattgc agatcctatg cagaagagat aataacggaa aataatcttt   480
gtctcctgga ttaagctgag gctggcaaag agtgaaatgt cccaagccct ctaacaacaa   540
acaacatact ttgtgttgtc ctggatgctg gtctggttgc caaatatgtg gaactggccc   600
```

1957

```
catatgcgtg tactgttgtc catttcatga gagtaggctc gacggacacc atggggcaaa      660
ggatctgatg gttgccagcc taagcgtttt agacttttga cccagagatt tattgttttg      720
ggtgtggaaa aaattttcca gtgaagggtc tcaagata                              758
```

```
        <400> 3180
tattaaaaaa tagcctgtga tggccgggca tgttggctca cagctgtaat cccaacactg       60
ggaagccaag gtgggtggat cacctgaggt caggagttcg aggccgggct ggccaacatg      120
gtgaaacctc atctctacta aaaatacaaa aaattagatg ggcgtggtgg caggtgcctg      180
taatcccagc tacttgggag gctgaggcag gagaatcgct tgaacccagg aagtggaggt      240
tgcagtgagc acgatcgtgc cattgcactc cagcctgagc aacaagagtg aaactctgtc      300
tcaaagaaaa aacaacaaca acaaaactgt gattctccat ctaacttttt acaattatcc      360
tttcacaatt caagaaagtg tgaatgcaag tcattactaa cagtatctca gtaaaagtag      420
tccaggagca aatattttct ttttaactgg gttcccagct agttccattc ccttgaattc      480
agtggcaaag tcactgtcaa taaaaggttt ttactcttct tcctttttga attgtaactt      540
gcttactgaa ttcaggaatt gggtgatcaa aagataactg cttattatag taagataacc      600
ttggaacaga actgtgatta aaaacctgaa taataaaaaa cacacaagac ccattaaaac      660
ctattcctca cttttttcttc gtgctggctt catggttgtc tttgctgtct tcattgctct      720
ccccgttatg ttgtggctga ttaccatctt gagcatcaga tcctccattt agagtctttg      780
acccttgcga aggaatccaa tggaaaaact ttgttaaagc ttacaaaaca ataattgaag      840
gtgtccacta aagatccaga atcaaaatac aacatggcca tcgtgtttct actacttaat      900
gtctttattt tgaaattaca ttgtaataca gccctctctt gaatgttaga attgggtttt      960
gatgctttgt caaaaagggg agcagatgac caccagaggc tttgggtagc taaggcacca     1020
taaaaagcag gttaactatc tatgagtaca ggaagtggat tattaatctg attattctgg     1080
ttgttactat taccaggaat actacagggt gttgtaattc ttagcatatt catttattct     1140
accacggaaa agcaatgtga atcaaatttt aaaattact  attttagaac aaagtgctaa     1200
aggagtattt cctaattgat atttttgtgc ctaataaagg gggttttcct gtaagtcgta     1260
ttaataattc tctaagggga cccatgtcat tccccaataa agcaacaaaa acaaaaaacc     1320
aaccgactgc ttttgacata ccagctttta ccttaagcag ctgccactaa gatgtttaat     1380
aacaagactg gaggagctga taatggtact atgattctgt tttaagagtc tttcatacat     1440
tctgaaatgt ttatgagtga aatggtatgt caggatttt  tcgtaaaaca actttcaaga     1500
ggggcataga gaaagcttat gggctacaaa agcacaatga tcataaactg aactgccaaa     1560
gctggatgac aaggacatga gaagttattt ctatttgtat aagttataaa ttttttcctaa     1620
tacaaatgaa aagaaataaa ctactgttag taataagtac tagcaggatt taactactgc     1680
taaagttagt gaaaaaagta gaagctaagg ttcagtgcct tacatatatg ctacacatct     1740
aagtgctttg taagacttta tcaccaggcg cggtggctca tgcctgtaat cccagcactt     1800
tgggaagcca cgg                                                        1813
```

<210> 3181
<211> 1086
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1035)...(402)
<223> similar to gi2072977 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 3181

```
tttttttttt ttgagtgagg tacgagtatt accaaatgat attttctgaa gatgcttttt        60
ggaaagctct gaatctatac ctaatgctct taattattgg cttgtttcat ttttttcctc       120
cagtttttaa caagatcaca taactggctt atttttaaca gctttgtcaa actacaattt       180
acatgccgta aaatgtacac actgtaattt tataattcat tgacttttag taaatttcta       240
gcgttatgca tcgccacaat ccagttttag aatatttcca tgaccctaag aagtttcctc       300
atgtctatta atattcccaa tcctaggcac cactgagttg ttttctgtct ttataagttt       360
ttctttctac atcttatata aatggaatca taatacatgt agtattttgt gtctggcgtc       420
ttgcacttag catggtgttc ttgaggttca tctgttgtag tatgtattga tacttaattt       480
ttttattgcc gaatactatt ccattgcatg gaaaagactt attttatttc taggttcacc       540
agttgaggga catttggatt gttcccactt cttgggctgt taggaataat gttgctctga       600
acatgtaaat aaagatcttt gtgttcacat atgttttca ttttctgttg gggagattcc        660
ctaggctaga aattgctggg ccatatgaaa aatcaatagt tagctttgta agaaacagtc       720
aaactgtttt cccaacgtga cattttatat tcccaccagg aatgtttaaa actagtgtct       780
tcaaatcctc accaacatcc aggattgtgt ctttatgatt atagccattt ttgtaggtac       840
aaagtggcat ctcatggtgg ttttaatttg catttccata atatctaatt aggttgagct       900
ttttttatgt gcttattggc catttgtttg actttgtttg gtgaaatgta tacaaatcat       960
ttgctcattt ttaatttggg ttgtctgtct tgtcttctca ttttattgag ttaaatgagt      1020
tcttaataat ctctggctta caagtcctta atttatcaaa tatatgatac gtggacattt      1080
cctcat                                                                 1086
```


<210> 3182
<211> 644
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (20)...(513)
<223> similar to gi2072969 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 3182

```
agttattgac cttacagatg aggtagagat tgagataagg gtagaaggtt tattcaaagg        60
```

```
gataataaca gagaaagaga tcaatatcca agaaccagaa ggttatagaa caccaagcag    120
gtttaaccca aagatgatta cctcaaggca tttaataatc aaacttccaa agatcaagga    180
taaaggatcc taaaagcaac aagagaaaag aaacaaataa catagagttg ggctttaata    240
cgtctggcag cagacttttc agtggaaacc ttacaggcca ggagagagaa gcatgacata    300
tttgaagtgc tgaaggaaaa gaacttttac cctaaaatag tatatccagc aaaaatatcc    360
ttcaaacatg aaggagaaat gaagactttc ctagacaaac aaaacctgag gtatttcatt    420
aatgccagga ccatgctaca agaaatgcta aagggagtat ttcaaccaga aagaaaatta    480
cattgatgag caataaatag tcacctgaag gcaaaaaaac ttactggtaa tagtaagtac    540
acagaaaaac acgacgtatt atgacaatgt aactggggtg tgtagactcc tcttacccta    600
agtagaaaga ctaaacaatg aaccaataaa aaattataac tacc                    644
```

```
      <400> 3183
tttttttttt ttacatttac taaaagtttta tttcaaatct gcctccaagt ccatgtgttc    60
tgaaaaggac agaggggggcc ttggagtgca gccagatgga aggactttga aggctgtcca    120
agtgctgctt tcagagtgca ccaagttttt attgtccctg actgtggctc cctgcctgtt    180
tgtcaggcgg gagcctggag cctgcacagg gacagagctg gtttcatccg gcactcccta    240
gccctggaca ccctccttgt ctcgcctgcc ctcctgcagg ccttcactct cccctgaggc    300
tgtcctggcc cggactgtgg ggagcacctc cacccccagg agcaggtgca cacccaggta    360
agcaggtcca ggggctgggg tgggcagggc tagctttttgg atcctgagtg tcactactct    420
ctcctcccag ggatgccctg gacctaagtg acatcaactc agagcctcct cggggctcct    480
tcccctcctt tgagcctcgg aacctcctca gcctgtttga ggacacccta gacccaacct    540
gagccccaga ctctgcctct gcacttttaa cctttttatcc tgtgtctctc ccgtcgccct    600
tgaaagctgg ggccctcgg gaactcccat ggtcttctct gcctggccgt gtctaataaa    660
aagtatttga accttgggag cacccaagct tgctcatgtg caacatggc ccttcctgtc    720
cctttattga tgtcatccag ggtcttaacg cccctgaggc tgagccctgc tgcagaaccc    780
agcgctcctg gccttgggcc agcagctgaa gccccatgct gtgtggagca aagaggtttc    840
ctgagcaggc acatcccccg gtgggtacct ggagctgttg ggagtatggc actcaaggtg    900
gagggcaggc acggcccagg ggtcccagga tctgaggccg ctgagctccc tgtgtcagtt    960
tcctggaaga agcagctgca gcccttgtgc ctgtggccag ctggtacaag acgggtccac   1020
gcccccttgg tccttttgtc ctgaatgcct tactccatag tctctgggca gagggagcca   1080
gggcgggcaa gcttgtggct gctgggaggg ctggtatgca gggcagaaag atggagatca   1140
ggaagactgg ccacaggcct ggtgggagga acaggatagg gtgaggaggc tctgggctgg   1200
cggcctggca ggacttgaac tctcagagca agacgtgacc ccagagtccc tctccctcgt   1260
gccaagcttg gcgtgagcag c                                             1281
```

<210> 3184
<211> 1096
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (904)...(375)
<223> similar to gi1055196 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3184

```
ggacacagtg aggaggggct ggataggaga agcatagtgg tcatgggaaa tgaaccaatc      60
attgagcact gactcttctt ttgttgggat tgggtttttt ggggactgca gcattctttt     120
atacagcaaa atgcaagagc ctggagctgt gctggatgtg gtgggtgcct ggctccaaga     180
cccagccaat caaaaccttc cagaatatgg agccttggca gaatttcacg tgcagcgggt     240
gctgctgcct ctgggctgct tatcggaggc tgaggagcta gtggtgggct ctgcagcctt     300
tggtgaggag cggcgactgg atgtacttca ggccattcac acagcgaggc agcagcagaa     360
acaggaacac tcaggctctg aggaggccca gaagccaaac ctggaaggct ctgtctccca     420
caagttcctg tcactaccga tgttggttcg ccagctttgg gactctgcgg tgagccactt     480
cttttctctg cccttcaaaa agagtctcct ggctgccttg atcctctgtc tcctggtggt     540
gagatttgat ccagcttccc cttcctccct gcacttcctc tacaagctgg cccagctctt     600
ccgctggatc cggaaggctg cattttctcg cctctaccag ctccgcatcc gtgactgagg     660
gtccctgcgc accacagcct ctctgctcct cacgtccgtg gccacagaag cagagcgaca     720
gagcgacaca tccacaggcg cccctgggga aatgggacca gcctaatctc gcggagtgca     780
ctgtgtcttg ctgcctgggt gccctctcct ttgcacccta cttcagctgg tcgcggtaga     840
tgatgtggaa acaaagcagg accagcaggc acagcacctc cagaacagtg ccccggatga     900
ccagaggccc cttgaaaagg gaggggtttg gggacaggga ctgtgtccat gaaacattcc     960
atcttcttgg tgaaggcaag gggttggttc ttcaggtcag gatgttaatg gagctggaag    1020
ttcagaaaaa gcctggtgaa gtgacccttg gcctttcact tcttgagaaa catacttctt    1080
tgctgggcaa aaaaaa                                                     1096
```

<210> 3185
<211> 1227
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)...(270)
<223> similar to gi1710216 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3185

```
cagttttttt tttttttttt tgctgcatga ttttattact ataaatatac agtaaaaacg      60
aaccaacgat gagcccatct gagcacatca gacggcagca catgggagtc ccagcgggcc     120
actctgcggc ccgaacttca cgcaaagctc tggcaccagg actgatggcc agaggctggg     180
```

```
gccttggtgg gggcggggg cgggcggtgc aggggggctgt gtgtgttgtt ggggagaggt      240
gcatgggggg agagaggtgc ttgggggtggg gtagaggtgc gtgggagatg ctcggtccga      300
gtgcacacac atgcatggga acatgtgcag gagtatgtgc gtgtgtgtat gcgtgacagc      360
atgtgtgagc gtgagtgtgc atgtgtgaac gtgtgcgtga gcatgtgcaa gtgggcgtgc      420
atttgtgtgt gtgtacgtgt gagcgcatct gcgtgcctgt gcacgagcgg gagggggtggc      480
tggcctgggt gtgcagggag ctgggtgtga ggaccgtgct gtccactgct gggtctcgcc      540
caggaggcag agctcatgct cggagccacc gtgagcctca gggagggtac tgagctgccc      600
cacagccgac ctgtccccag gcccccactg cagggcagcc ctccagagcc aggtgagcag      660
cagacacctt gcctggccca aggctccgca ggggtggatc catgccctgg gtcaccacgg      720
cccaggcact cccttttgcca tctgcggccc caggaggttt acctataaaa aaaacaaaca      780
aacaaacaaa caaaacagga cgaggtcgcc cagaggccaa gcctccccgg ccgggacccc      840
attcccccagg tgtgctgctg gcttcctcct ccctgggccc agcctgccac agaaagcctg      900
agacagaaca aaccaaatca gagagaactg caagggggcc gggcgcggag gctcacgcct      960
gtaatctcag cactctggga ggccgaggca ggtggatgac cttaggagtt tgagaccagc     1020
ccggccaaca tggtgaaatc ccttctctac taaaaataca aaaaaattag ccgagcatgc     1080
tggtaggcac ctgtaatccc cagctactca ggagcctaag gcaggacgat cacttgaacc     1140
cgggaggcgg aggttgcagt gacccgagat tgagccactg cactccagcc tgggcagcaa     1200
gagtgaaact ccatctcaaa aaaaaaa                                          1227


        <210> 3186
        <211> 698
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (692)...(215)
        <223> similar to gi3874389 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters



        <400> 3186
tttttttttt ttgtggtcta aaataaactt ttaattgcac atttgtgtct tgggttatct       60
gtggggtgag aaacctcctc acttccaatc ccagctatct gggtacaatc tggtgttgtg      120
gtctggctgt cggcgagggg tagaggtggg tgcaggactg gcccccgagt ctgcaccgac      180
ctcttcaggg cagggagctc agaccatggt agtacttgca ctgcttcagg gcctcgctga      240
agccctcaca cagggacagg tcactctgag tggtggaaca gtccaggaac tgcctgatct      300
cataggcgca gggcccccaat ctgcaagggg cttggggggc agcggggggtt ggggggccttg      360
cttggacagc agctcggggg aagggctccg aagctccccc ccgcttgaag gctccgggtc      420
aagggcgctg cccatgaacg tgtcccacag ccgagcccca cggctacccc tgcggcccgt      480
ggtcgccatc tgagccatga gccccggctg gcccgaaggg gcggggggctg gggcggctgc      540
cgagggcggt gggtgcgcgg gcgggtgggc agagggcgcg gcggggcggc tggctggccg      600
ggaggccgcg ctgcggcttc ccccgaggca tggtggcggc ggtgggaccc gggcgacctt      660
agagacggcg gcagcggtgc tgtcgcgggg acaaatgc                              698



        <210> 3187
        <211> 1294
```

1962

<210> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (167)...(757)
<223> similar to gi746487 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 3187
cagagacgct gcaaattgct tgtggacggt gtaggccgct gcaggccacc atgaaccggc   60
ttccggatga ctacgacccc tacgcggttg aagagcctag cgacgaggag ccggctttga   120
gcagctctga ggatgaagtg gatgtgcttt tacatggaac tcctgaccaa aaacgaaaac   180
tcatcagaga atgtcttacc ggagaaagtg aatcatctag tgaagatgaa tttgaaaagg   240
agatggaagc tgaattaaat tctaccatga aaacaatgga ggacaagtta tcctctctgg   300
gaactggatc ttcctcagga aatggaaaag ttgcaacagc tccgacaagg tactacgatg   360
atatatattt tgattctgat tccgaggatg aagacagagc agtacaggtg accaagaaaa   420
aaaagaagaa acaacacaag attccaacaa atgacgaatt actgtatgat cctgaaaaag   480
ataacagaga tcaggcctgg gttgatgcac agagaagggg ttaccatggt ttgggaccac   540
agagatcacg tgaacaacag cctgttccaa atagtgatgc tgtcttgaat tgtcctgcct   600
gcatgaccac actttgcctt gattgccaaa ggcatgaatc atacaaaact caatatagag   660
caatgtttgt aatgaattgt tctattaaca aagaggaggt tctaagatat aaagcctcag   720
agaacaggaa gaaaaggcgg gtccataaga agatgaggtc taaccgggaa gatgctgccg   780
agaaggcaga gacagatgtg gaagaaatct atcacccagt catgtgcact gaatgttcca   840
ctgaagtggc agtctacgac aaggatgaag tctttcattt tttcaatgtt ttagcaagcc   900
attcctaaac agcccaactg gcatttaatt acccaatact gtatataagg caaatatgga   960
cagttacttt cctcttgcct gttcatatcc ttcagtgaca ttgaggaagc agtgtttctc   1020
tttttaaagg agaatagttg tcaaccttca ttcatctctt acatctctca ccctctcctt   1080
tttttttttct ttgattttcc cccttattga tgggactgat attcattctg tttttgatga   1140
acatttggaa actgtcgggc tttttattaa agctctgtaa aattaaaagg ttttggaatt   1200
ataagcaatc tttgtttctg agggttattt ttattttgca tatagctttg atgtaattaa   1260
actggaaact ctttcctgaa aaaaaaaaac caaa   1294

<210> 3188
<211> 1227
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)...(270)
<223> similar to gi1710216 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 3188
cagtttttttt ttttttttttt tgctgcatga ttttattact ataaatatac agtaaaaacg   60
aaccaacgat gagcccatct gagcacatca gacggcagca catgggagtc ccagcgggcc   120

1963

```
actctgcggc ccgaacttca cgcaaagctc tggcaccagg actgatggcc agaggctggg      180
gccttggtgg gggcggggggg cgggcggtgc aggggggctgt gtgtgttgtt ggggagaggt      240
gcatgggggg agagaggtgc ttggggtggg gtagaggtgc gtgggagatg ctcggtccga      300
gtgcacacac atgcatggga acatgtgcag gagtatgtgc gtgtgtgtat gcgtgacagc      360
atgtgtgagc gtgagtgtgc atgtgtgaac gtgtgcgtga gcatgtgcaa gtgggcgtgc      420
atttgtgtgt gtgtacgtgt gagcgcatct gcgtgcctgt gcacgagcgg gagggggtggc      480
tggcctgggt gtgcagggag ctgggtgtga ggaccgtgct gtccactgct gggtctcgcc      540
caggaggcag agctcatgct cggagccacc gtgagcctca gggagggtac tgagctgccc      600
cacagccgac ctgtccccag gcccccactg cagggcagcc ctccagagcc aggtgagcag      660
cagacacctt gcctggccca aggctccgca ggggtggatc catgccctgg gtcaccacgg      720
cccaggcact cccttttgcca tctgcggccc caggaggttt acctataaaa aaaacaaaca      780
aacaaacaaa caaaacagga cgaggtcgcc cagaggccaa gcctccccgg ccgggacccc      840
attccccagg tgtgctgctg gcttcctcct ccctgggccc agcctgccac agaaagcctg      900
agacagaaca aaccaaatca gagagaactg caaggggggcc gggcgcggag gctcacgcct      960
gtaatctcag cactctggga ggccgaggca ggtggatgac cttaggagtt tgagaccagc     1020
ccggccaaca tggtgaaatc ccttctctac taaaaataca aaaaaattag ccgagcatgc     1080
tggtaggcac ctgtaatccc cagctactca ggagcctaag gcaggacgat cacttgaacc     1140
cgggaggcgg aggttgcagt gacccgagat tgagccactg cactccagcc tgggcagcaa     1200
gagtgaaact ccatctcaaa aaaaaaa                                          1227
```

```
<400> 3189
tttcgtggac aggagggctg gcaagggagg gtccagggtt aggggattcg gagtggcttc       60
aggcggacca cgtggctacc ttttttccag ggccagactt tggcagcgtg taaggtctga      120
ggacaggggc accggaggcc gaggatgaga ggccagtgcc tgtttccagg cagccagggc      180
ctcagaaact ccggccggag cactcacccg tcggtggagg ccgttaccag ggccacctta      240
tttgcgagcg ggtcccggcg ggtcatcccg gagctggcca tccgcaccga attccaagcc      300
cgggcacaga ggcctagcag ccccgccttg tgcatggatc agaccagcaa atgccacttc      360
ggataaaccc tttggactcc taactccaat caggtgtctg ctttgttgag gactcacaga      420
cacagtctcc tttcttcaag atctttacaa tgcaagacct cactaacaca cagggatggt      480
ctcccagagg gtctgtgctg ttccttcact cagaacatca agatgcactg aagtaaggat      540
cctctattct acagttcctg ctagctgagc tattccatgg gggcttcagc aggaaattcc      600
aaggttggct ttgacaagct aaggccggct ggtggagcac atcgagttct ggaggttcat      660
gtgtgttttc atgaagatct gtctgcccgt agcagataaa gagttgttgc cccactcctc      720
ctggggtctt ctatttttct gggaggaatt tctggattaa ctgaacacac acacacacac      780
acacacccctt ttgaagcatc aacagtaatt ctgagttctt agggacaatg cagattaaat      840
ccacaataag aaagacaact atggccaggt gtggtggctc acggcctgta atcccagaac      900
tttgggaggc tgaggcggat ggatcacctg aggtcaggag ttagagacca acctgaccaa      960
catggagaaa ccccgtttct actaaaaatg caaaattagc cgggcatggt ggcaggcgcc     1020
tgtaatccca aatactcggg aggctgaggc aggagaatca cttaaacccg ggaggcagag     1080
```

```
gttgcagtga gccaagatcg cgccattgca ctccagcctg ggcaagaaga gcaaaactcc   1140
atctcaaaaa aaaaaaaaga gtcctatggt tccaaagggg accaaacggc cctcattgga   1200
aaaaataggg gactttatta tgcaaggggg ttccagtccc ttggtttggt tttgggaaaa   1260
gaaaaaaagg cctacaatcc aaaaaaatag ggcccatcac aggcttcccc aagggacaaa   1320
attaatccat tttt                                                     1334
```

<210> 3190
<211> 1772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1775)...(40)
<223> similar to gi3253120 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3190
```
tttttttttt ttaagattat tctaaaatac aacgtttatt aaaaaaacat gcgatcttgc     60
caataggcca attccatgag aacaaaagat tttttttccc acctacaagt ctttttagag    120
aaacaaacgg aactatttcc agatgaggcg gggtgtctgg gaggggctgt gggtggtctg    180
gggctggtga ctggtgaggt tgggtggccc tctgggggtc cgggaggcac tttccgtttt    240
gcttctgttg gagatgttcc cgtcggatgc tgaagaacaa gcctgccggc tggggccact    300
cccgacctgg gctgtggcac ccgtgtggcc ctcggccctc ctggcctgag aaagggggagt    360
gagaaggagc cactgtcctg atatgggcaa aactcggggt cactggtctc atgcttccaa    420
ggccccgtga gcaggccagg tggggggatc cctgggggaa gcccctcacc cttctccaac    480
ccccagcctt cggggagccc ctgccctcca ggccctgtgc tcggaggtgg ggggaggacg    540
gctcagtgac ttttggttcc catgacattg acagagacag ggacctcgac gcatcctcca    600
tacccgctgc ggggaaatgg accccaccag ccagcacggg gtgagttggg ggccagtccc    660
tggcagagtg tgggtgtcca cagagggtct cttctgcagt ggcggatcgg cgcgccagcag    720
ggtcccggcc tcagtgctgc ctgtgcgggc gaagggtggc ctgtgggcaa gggctggagc    780
tgccccagca gccgcgggct ctgcctcacg acccagtggg tgccccgtga tgtggcaggg    840
ctggccttga gtttcctgct tctcacgagc ctggcaccgc caagcccagg cccctctggc    900
ccatctccac aacaccctgt gtggccgccg cttggggcag gccctgtggg ccccacccag    960
cctggctgag gggcggtgga gagtgtccgc ctggacggtg aggtcagctg gcggctgctg   1020
gccaccctcg tgctcgaaag atgcccctag cgcccctcc gttgcatcag acccctaggc   1080
cagcctgtcc cagtgtctcc tcagctcacc atggcaggct caatggtgac cccccttta   1140
tataggggga aactgaggcc tggcgaaaga aagatgcggc ctgaggtggg acgtgaaccc   1200
gcggccctgc agcccagaca gcggccccgg agtgaccacc agcttcaccg aagccccttt   1260
actgtgcccc cgaggacacc tgcctgccgt tccccagggc cgtcaccgcc gatagcggta   1320
gcgcttgaag tgaaaccaca gctggaagat gccgttggca aactggcagc ggaagccgtg   1380
gcggtgcgag tattcccact cgcggttgac gatcttgaaa gcgatgtcct cgtagggcgg   1440
ccccgcgtgg aagcgcagga tggcgaaatc cttgttgtcg cgcaggcct ccaggaagta   1500
ctcgggcgtg gagcgcttgt cgatgaggtc ggggtagaag atgttgaact tgtatccctg   1560
cacgatcttg ggcggtgggt tgtcaaagtc gtagtgcgtc tggttgtact tgttccactc   1620
gaagcccgtg tgcacgcggt tgaagaagcg cggcttgcgt ggccggtact tgtcggccca   1680
caggtaggcc ttgccggtga gtggcatctc cacgctgaac tgcgcctcgt cttggcccat   1740
gccctccttg gcccgccgaa agaagatgtc ct                                1772
```

1965

<210> 3191
<211> 1194
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1153)...(365)
<223> similar to gi4186073 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3191
```
tttttttttt ttatgatttt aatatacttt atttatttaa aaagtacaca gttttaaatt    60
ggtttcaata ggtttcaagc agaagggaca ctgcctacca cttgcggtcc catttctgat   120
gaagggtgat tatcatgtgg caaactcaca tttgcatgac tggcaaagta aaaagataga   180
taactttttg tcaacatatc tttaagagtt tatatcacgc acagtttaaa atcatgacga   240
gatgctgatg gttggactat attcatgtct cgtatgttgc accatatttt ggttcacagt   300
ttatccatga tttagcatgc caagagaaca tctcagtcag taagagaaca tctcagtcag   360
tgtcaccttg agaagagcat caaaagcaga gggagcagaa ggaggaccgt ctgggcttgg   420
agactcggcg cacccccaca ctccctcgca ttctcctcag gatggaagcc atgacaagat   480
tctgggcgcc ttctgatctt ctgggccttt agacgttcac acttaaggga ttcattatgt   540
tgactgtagt taaggcatgt ttccaaggat tgcttttttc tactctgcat ttcagaggtc   600
aaaatttggc aatgacaact ctcttaacta ctctctctct ccaacagtgg aaaggatgta   660
attttccttc tctaatattt ctcccccagg tttccttacc actgataccc cttactggtt   720
tccgtggtag tgagtggacc tgcacacaaa aggatatacc tgatttcaat gggtgccatg   780
gtgatggggg ccacagattc acagaggcag ctgctgtcca ccaccaccat gaacaggttg   840
ctgcttggga tttgctggat gacaaaggac ctgttggaac aagaggtagc gaggcagtca   900
tttaccatcc gtcaattaaa gagccatgag gaagacttct ctcctgggtg gtagcaacta   960
ccatattttg taaagcaaat tttggagact attttactac taatgttacc ttctttctcc  1020
atgaggctct tcacttacaa atacctagct tcactaggaa aacaacaata gctatgacga  1080
catgcggctc atacaactca ccttggaaag actgaagtgc tgtatgtaca aaacacaaga  1140
gtcagagttg gctgaatcac ctgttcccaa ggtttaagag gtcagacttt caaa         1194
```


<210> 3192
<211> 2148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2148)...(661)
<223> similar to gi2317934 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 3192
cgaaaagaaa gtggggggact ctaaagattt tctcctttta agaaaaaata gttccggctg   60
gggagtacaa aatggagtgt aaaaagggcc ttgggccccca gggaggcccc tgtggactaa   120
ggggagttca tgcaccccctt cttttcccccag aggggctgga ctcaggtgag tatggggggtg 180
ggggctcctg cacttcgaca caggcagcgg aagggttttc tcccccattcc ctctgcactc   240
ccaacttgag ctatactttt taagaaagtg attcaccctg cctttgcccc cttccccaga   300
acagaacacg ttgatcatgg gcgatatttt tcattgtgcc aaaaagttgc catgaccgtc   360
attaaacctg tttaacacca aataataagg aaaataaaac aaaaagttcg ggcatggtgc   420
agaaactcac tccaaataaa ttacctacca aaatatataa tggtggaaat attccaaaat   480
tccatatttt gggatttata cacaaaagat aaacaaatta gaggccaaga ggctgccgga   540
agggaaaaac ggggcctgga atggccgacg tgaggaatga gctgggccta aagaggccac   600
tggcaggcag tagctggacc tgccgaagtg gccgaaaggc aggagctttg gacggggggag   660
gccgcagtga ggcgagagct agctgggcgt ggagagtcca ctgtgaggcc aaggccaagg   720
ccgggcccgt gcaggccttt gagaggcagg aggccgggcc tgcaaaggcc gactggagat   780
caagttctgc gcctgaagag gctgccaaaa gtcaaaagcg ggggcctggg aaggcagccg   840
agagccatga gctgggctgg gccgaaagag gccactggga ggcaggagga gctgggcctg   900
gagaggctca ctcgaggaag ttttgcacct ggagaggccg ccgagaggac ggagctgggc   960
ccgggggaggc cgacttgctg ctcttccagg cccaattcca ggccgacttg aggacgactt   1020
gggcctgcag agactgccgg gaggctggag ctgggcctgg agaggccgac ttcgggacga   1080
tttggacctg cagaggccgc cgggaggccc aagctgggcc tagaggagcc caccgaccgg   1140
aggccgtttg gggcctgcag atgccatcgg agggcaggag ctgagcctgg agaggccacc   1200
gtgaggcctg agctgggcct ggggagcttg gctttgggaa gctgtgggcc taccagggcc   1260
actgggagct gggcaggagc tgagtccaaa gatgttgttg ggaggccaaa gtcgggcctg   1320
gagacgcagc cgggaggaag agctgggccc ggagaggatg ccgggaggct gcaagtgggt   1380
ctggagaggc cgacttgagg aggttctggg cccggagagg ccgccggaag ggaaaaactg   1440
ggcctggaaa ggccgttgtg aggaatgagc cccatgggcc tgaagaggcc actggcaggc   1500
gggagctggg cctgccgaag cggccgagag gcaggagctt tggactgggg aggccgcagt   1560
gaggcgagag ctagctgggc gtggagagtc tgctgtgagg cagaggctgg gcctgtgcag   1620
gccttcggga ggcaggaggc cgggccttgt cgaggcctgc agaggccgcc aaaagtcaaa   1680
agcggggcct gggaagcccg cccagaggca tgagctgggc tgggccgaaa gaggccactg   1740
ggaggcagga ggagctgggc ctggagaggc tgactcgagg aagttttgca cctggagagg   1800
ccgccgagag gacggagctg gggcccgggga ggccgacttg ctgctcttcc aggcccactt   1860
ccaggccgac ttgaggacga cttgggcctg cagaggctgc cgggaggcca gagctgggcc   1920
tggagaggcc gacttcggga cgatttgggc ctgcagaggc caccgggagg cccaagctgg   1980
gcctagagaa gcccaccgac cggaggccgt ttggggcctg cagatgccat cggagggcag   2040
gagctgagcc tggagaggcc accgtgaggc ctgagctggg cctggggagc ttggctaggg   2100
aagtttgtgg gcctaccagg gcctctggga gctgggcagg agctgagt   2148

<210> 3193
<211> 625
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (626)...(215)
<223> similar to gi306782 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3193

```
tacctttttta aaattttta ttttttttatt tagtggcctt ttagattatg gtgatcttca      60
cctcatctcc acctgtctcc ccacattaga caggggtctt atgcttgcta ctgtgagggt     120
aaagggttga ctgggaaggg gtggtaggga catggtaggg gcagagcctc cagccccact     180
tcccccaggtt ttgctgacag tggccggctt ttagatgatg gtgatcttca cctcattgtt     240
ctcatcagtc tggtacaaaa aaggaatgca agggctgctg cccaagcctg ggtgctcctg     300
gaggttctgc atctcatgaa gcagttgcat gatctgctgc tcagtggggt tgtcacaggg     360
agaatgcttc cccgcctctc cttgtgcaga ctccccactg ctggcaaggc tcacctcaca     420
aagatctttg gagagaggga ggcagggtgc tgtgggagcc ctccctgct cctgcgtgcc     480
cactgtgcct gaggactcta ctcactaccc tggcttgtca gtagccccaa gctactgggg     540
gggccggggc ccctggagtg ggctcatcag cagggttctg ggcagctgcc aggaatctgc     600
tatgccactt gttgcagtcg tccac                                           625


        <210> 3194
        <211> 2434
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2434)...(2145)
        <223> similar to gi3002527 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 3194
accagtaata atagttttat ttgattttaa aatagtcatc aatgtgaaaa tttctcaaag      60
cttaagagta acagtctaga gccaaggttg ggagtggggg ccaggcctca cacagagccc     120
agcttgaggc ccctgagccc caccctcctt tccagaggga gggaggagac agctgagggg     180
gccctgaatc agtcctctcc ctcgtcccca aggccagctg tgccaggccc ctggagggca     240
acagctcatg cggaggactg ggggggggaag caaacaggta ggaaacggaa atgaggttaa     300
caattacacc atcacccca aaaaaaaaca aaataacaaa acttgtgact atgaaaggat     360
ggaagatgaa tactgataaa ctcctcagct ccccagaaaa gcccagtctg ggctgggttg     420
ggctgattgg aggaaaggtc ttgagaccca actgcatgtt acctctgaag aataaatatt     480
ctaagaaaaa gggaaaacca tgaggcaagc tgctgcagtc agtcaacgca gctgacaggc     540
ctggcatggc ccacaacctg accccatcca cacaggaaac agctgtgcgg gtctggatag     600
aggagaggtc aagggcttgg actggggacc ctgagctgcc aaggtgtggg gactccttgc     660
agtcctggtg cagcaatggc aggaaggcca gcaggggccc tagttgagca ggttgccctg     720
ctcctgggcc tgggtcaggc tgtccttgcg gtgcaggtgg tgaaccccca tcctcttggg     780
gctgcgctgg gggcgactgg agctggggag tggccaggcc ctgccctcgg tgtgggaagt     840
gcctggcccc tcctctgtgc ccctgttaat gggcagcagg ctctggcgct cttcctcagg     900
actgataggc aggttcagct cttcttcctc cctgggaaag ccagagtcag gttctgtggg     960
tagcaaaagc tcactctctt cgggtcgggc agaaggtgcc tggaccacct catctctgtc    1020
agcggggcta tgggcaaaat ggcgctgcag ctcagggagg gcatcgcgtc caaaggctgt    1080
gcgctgggcc acagcagcag gtggtggagt acggtccaca aatgcccgct gccagctgac    1140
cagcaggtcc tcttcagagc tggcagagct agctggggca ctgagtgtta ggggtgctgg    1200
gctgggctgg tggtggggtg aggcctgggc tgaggcaggg gtgctgggca ctgggctggg    1260
gcgggcccgc tcactcccct cctctaccag gctcaggaa atggcctggc gggtagcgta    1320
agtgcagttg ggcaggggc atgttgcggg ggatccgaac cttatcctca gagaactcta    1380
ttaccctgcg gccaggatac agtgggtgtg gtggagacgg ggttgggtag gggttcagct    1440
tctcaaaggc tggcaggggc agctcttcct ccggggagcc cctggcagta cccagagagt    1500
ggcactcccc attgggttgt ggggtggggc tgccatgtgc ccggggggact ggctggaata    1560
```

1968

```
actgggacac cctcactcat gtccacatgc acaaagacat cctcagccaa ggggcgcccg    1620
gcgctgcctg actggaaaga attgagcagt agagactccg gcttctctaa cactcgggca    1680
atgactgagg taggcaccac agcccctggg gctaggctgg gagcaggacc tgggctggcg    1740
gcctcttgac cactgtgcaa atgtttccga accatgtcct gtagctcaca gggcagctga    1800
ggtaaaagag caggaaagag agacatcaat gatcgcagcc aaagataact tgactcatgg    1860
cgaaagtaat ggctcccacc tttaagtacc tctgtgtact cagcactctg ctatctcctg    1920
ttcttacagc atgccagtgt gtataccctc acttcacaga cacataggcc tggagagggg    1980
aagacaactc aaagctttgg ttaacttggc caagatttaa acccggatct gctgctgcag    2040
ccagcatgtt ctcaaacttc tatctcccag cttctgccca aaccatactt aagtttggag    2100
aatctgcata gaccagtagc cttagaaata cctctacttc tgggccgggc acagtggctc    2160
atgcctgtaa tcccagcact ttgggaggcc gaggcgggtg gatcacgagg tcaggagatc    2220
gagaccatcc tggctaacac gatgaaaccc catctctact aaaaagacaa aaaaattagc    2280
caggcgtggt ggtgggcgcc tataattcca gctacttggg aggctgaagc aggagaattg    2340
cttgaagccg ggaggcggag gttgcagtga gccgagattg tgccactgca ctccagccta    2400
ggtgacagag caagactccg tctcaaaaaa aaaa                                 2434
```

```
        <400> 3195
tttttttttt ttgctcagca atctttattc agttcttctt gggggtggga tgcctccctt      60
cccatgctcc cacccctccc atcccagaac tccgttgggc tcagtgtcct ctgttgaggg     120
aaggtcttgg tgcccagatg cctactctgc aggagaggga ggaaccttgt ccctttgcgg     180
gagtcgctgg tctcttctgt tgtggggaag aaggaaggtg ggaggggcac tgtccaccag     240
cactcagagc tccattatgt ccccagctgg ggttgcaggg tagggggggac tgggggtgtc     300
ccccagcctc agcagacgga gggcctcagg gatgaggctg ccaggatagc gccagagaag     360
cagctcagag caagggctcc tgagtggggg cagggctggg gagaaggtca tggggggggct     420
gcagtagggg tggtcattgt gcaggctgag ttgagagaag tgggtggcca tgttctcctc     480
agacagaaac tgcttgcgca gaggctccct ggggagagat ggcagagagg caggctggga     540
tactgacaca ggaggcagcc tgttggggac cagaggtgac agagatcttg ttgggagtcc     600
ctccctgccc ccaaactcac tgctcctcct ccaggcgccg cttggtgctc atgggcacag     660
ctcctcggag aggggagctg ggaaaaaaag agagcctggt gcacccacc ctcttggccc     720
cttcccaagg atctgcccgc ctaagcctgc agcatcagcc ag                        762
```

<220>
<221> misc_feature
<222> (144)...(380)
<223> similar to gi3002527 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3196
acgccagtgg acaaaatctc ccagatacgc ctttccccat gcctatgacc cagaatacta   60
cttttattcc agatcaatcc tggcacttca ttccccatag acttcagttt gcaccaatcc   120
cccatccgaa ctgtaacagg tttttttttt ttttgagatg gagtctcgct ttgtcgccca   180
ggccagactg cggactgcag tggcgcaatc tcggctcact gcaagctccg cttcccgggt   240
tcacgccatt ctcctgcctc agcctcccga gtagctggga ctacaggcgc cgccaccgc   300
gcccggctaa ttttttgtat ttttagtaga cacggggttt caccgtgtta gccaggatgg   360
tctcgatctc ctgacctcat gatccaccg cctcggcctc ccaaagtgct gggattacag   420
gcgtgagcca ccgcgcccgg ccttcctttc cttttttttt tgagatggag tcttgctctg   480
tcgcccaggc tggagtgcag tggtgcgatc tcggctcact gcaagctccg cctcccgggg   540
ttcacgccat ctcctgcct cagcctcccg agtagctggg actacaggcg cccaccacca   600
cgcccggcta atttttttgt atttttagta gagacggggt ttcaccatgt tagccaggat   660
ggtctcgatc tcctgacctc gtgatccgcc cgcctcggcc tcccaaagtg ctgggattac   720
aggcgtgagc cactgtgcct gccccagaat gggttttaa agccacagtt gagaggccac   780
ccattgcccg gcgcctggac agtgatcatc ttgttcatct tgttcagtcc tttcttgtgt   840
gattggaatt attcatcccc tttgaaagat gagaaggttg agatgcaaag agtctacctt   900
tccaagttct cactgctgga aagagctaga agcacagttc aaagttctgg cttctggact   960
ctgcagtcca ggtctccctt ctcccacttg cctaccctca atgccacact gtttttgaag   1020
tggcccataa cttgaaggaa aagtttaaag acagttcaat ttaatcatca gaatgcattc   1080
tttttttttt cggagacgga gtcttgctct gtcgcccagg ctggagtgca gtggtgcaat   1140
ctcggctcac tgcaagctcc gcctcctggg ttcaagccat tctcctacct cagcctcccg   1200
agtagctggg actacaagcg cccgccacca cgcctggcta atgtttttt ttgtattttt   1260
agtagagacg gggtttcacc ttgttagcca ggatagtctg gatctcctga cctcgtgatc   1320
cgccccctc ggcctcccaa agtgctggga ttacaggcat gagccaccac gcccggcccg   1380
tggtcagacc ttccagaggg ggttcaggtg gaaggcagac tcagaatttt cgcgcaccca   1440
tgcctcgcgc ttctcctgaa tggctgagga gtggagggct gggggtgggg cccaatttaa   1500
cccatgtttt aacaaaccct actctaaaac ggcctgacat gtcacaagga ccaccgcatc   1560
acaggccagt tcccctcact ggatgcccac actggtgtaa acttaggaag aggctgggca   1620
cactggctca ctgctgtaat cccagtgctt tggaaggctg aggtgggaga atcgcttgag   1680
gccaatcaca cgactgcact ccagcctggg cgacagagtg agaccctgtc tctaataaaa   1740
aataaaataa ggaagaaaga actgttctgt ctgtggggct gggccacgcc cagtgcctgg   1800
gtgggcagga gaacactctc ccccaagcc gactcccccc ttcagccctc cctcgtctca   1860
cccactctgc tctcccttc cccctccccc tgcagctgga gctgttgtca gaggagggga   1920
ggcatttcct gtgtcccct ccccctaatt ccctacatt cctggcaagc ccagaggagg   1980
cctgagagaa ccagagaggg atgggcggga acaggcgaga ggccgggagg gaagccaggc   2040
cccaccacac acacaagact tggagagcag ggccaggaag gaaatggggg aagggatgaa   2100
gcgatgcccc gagaggggct ggaaaggacg cccaccgtca tcagagggtg gtctctgctg   2160
ggcacggcca cgccccttcc acccctcagc ctgcctcctc agggcgtcta gcaggctgct   2220
gttccgtagg ggatgcagaa gaaaggccag aggcagtccc gctcagagat cagggccatc   2280
cccaaagaac tgactgcgcc ctgagagtca ggcgcccaat ggggcggtgg agggcccagc   2340
ccagcaaggc ccctccggga caccaggaga caggagggca gagtccaggc gaccacccag   2400
cagccaccaa gcccccgagc agctggccag agtgacggcc acagcctgcc cttgtctgga   2460
gcttactgtc tggggaggga gatgaaggtg gcacttcaac gccaggtcc aggaggcggc   2520
agcatcccag caccatggga aattggatgg gggggtgcgc aagcactcgg gccctaacca   2580
aaccttagcc ccaacacccc ccaccaccac ctggctcaca gggcagtgct cacggcctgt   2640
gtgcacgtgt gcgcatgggt gctgcctgcc cagggactgc aagaaggggg gtctgcaggc   2700
cacggcatcc agcctggggc agcctccagc agaagggggcc actccagaga tcaggtgggg   2760

1970

```
agctgggcac ccacctgagt ggcatcagtg acttcctaaa aaaaaaaagg ccccagagag    2820
accccaccct tctcaccatg ggaagacaca ggagttggtg ggtctgggga agccctcacc    2880
acacaatgaa tctgccgggc tctaccttta gcaatgggca ggacaggcct gctgcgctga    2940
ggccacgcac agatggggag gcacaccacg cagcctgtcc ctgactgtgg agggtgaagg    3000
gagggacaga cccaagggac ctgggtagat ttctccagca agagtcgtct ccagatcaca    3060
tttaggaatc tgcagtttca ccactgccct gatacagact gccgtcctcc cccagggctc    3120
ctgcgtctca cagcaggaca gtgaaggtaa ggcccagcca agccagagct ggctgctgcc    3180
tctaggcaag gcctccacac cccacccttg catcactcgt gactctgccc tgttcagaca    3240
gccctgccca tgatgggtgg ggcacagaga ccagtgggag cagcactttg ggacccaagg    3300
ctgggagcaa gtgggtccag gggacactgg gctcctaaga accatactgt ggccccaccc    3360
caagtgcctg cctccagact tgctcacccg agggcgaagc aggcacccag caagccgaag    3420
ccatcgggag tgggtgcatg tgtgtgtgcc catggtactg atgtgtgcat ccatgtatgc    3480
ccatgggtgc tgatgtgtgc gtgcacgtgt ccacgggtgc tggtgcatgt gtgtacatct    3540
gcccgtgggt cctgacgagt gcgttgagtg caggtgtgtg cgcccacggt gctgatgtgt    3600
gtgtgcacgt atgtccgtcg gtcctgagtg cgtgagtgca ggtgtgtgcg tgagtgcagg    3660
tgtgtgcgct cacggtgctg acgtgtgtgc acgtgtgccc atgggtcctg atgaatgtgt    3720
gagtgcaggt gtgtgcaccc acaggactga cgtgtgtgtg cacgtgtgcc catgggtcct    3780
gatgaatgtg tgagtgcagg tgtgtgcgcc cacagtgctg acgtgtgtgt gcactccatt    3840
ttcacgctgc tgaagaagat atacccgaaa ctgggaacaa aaagaggttt aattggactt    3900
acagttccac atggctgggg aagcctcaga atcatggcgg gtggtgaaag gcactttta    3960
catggcagcg gcaagagaaa aaatgaggag gaagcaaaag cagaaacccc taataaacct    4020
atcagatcgc atgagactta ctcactatca cgagaatagc acagaaaaga ccagcccgat    4080
gattcaattg cctcccctgg gtccctccca caacacatgg aaattcttgg agatacaatt    4140
caagttgaga ttggggtggg gacacagcca aaccatatca ccgtctctac taaaactaca    4200
aaaattagct gggcatggta gcatgtgcct gtaatctcag ctattcagga ggctgaggca    4260
tgacaatcac ttgaacctgg gaggagacag ggtgagactc catctccaaa gaaaaaaaga    4320
agttttaagt ttgaaaggtt taaacagcct ttctttttaa acaaacaact gttagcacag    4380
agaggaaaga ccccttccta cagccccaaa tgagaggaat cccagctcca tggaagcaac    4440
cgctccagca cccacagcag cctcctgggt gagggccctg ctgtgtcgga atctccccaa    4500
tgccccatcc ctgtggggaa gcagctccag tgctcatcaa cacccaaaac aaacgcatca    4560
ggggtcaaag ggacccagga attccagaac caaagagaaa aacctcaaca gaggcgttcc    4620
tgaacatgtc aggaacggag ctatgagcac gggctcttca tcggggttcc taagttacgc    4680
aaagacagca atcaggaact cagcaatcag gagccagagg atggccacat actcacagtg    4740
gaggccactg tacccctctt ggtggaacac cccaggttgg ggtgcacggc ctaaagcagg    4800
cctagcgctg tccccagccc cacacagtga gccctgccat tttctgttta caaataaaaa    4860
gcttcatgtt ttctcaccat ccatgcacaa ttctgtctct tgcttatggg atctaaaaca    4920
ctgcaggagg tggctcaggg cctctagagg cacagacagg gggccctaca ggccctcagc    4980
cctggctccc caatcccagg gccacagaag caggtggccc aggggccagg agagcagcag    5040
acacgcattt ccggcttgct gaactccctg gagggtccag gccagtcggg gcagcccttc    5100
ctttggagat aaatatcaaa cctcaagtaa acggcctctg agtgcagcag gtgaacttct    5160
gagagctggg tggagccacc tggggtagcc agccacagcc tgtgcgctgt ccctccaagt    5220
acagataaag gcaggtggcg ctgcagtggg ggtcgggggg tggggagcag gaccacttct    5280
ttttgggaaa tgtggctgcg tgaatgggag agtccacagg ccctgtgctc aatcacagta    5340
aatgccactc ctcacgtctt ctccctatcg gagcaaccag cccttgctca gtgtgaacca    5400
aagaaaagaa gagcttgaaa gatcacaagg agattgctca attctcaaca gctctgagag    5460
gctgcctgcc ccaggaccat cctgatttcc cttcaggagt gtagggcctg taagaattcc    5520
tgcccgggca gggaggctga ggcagtgacc aggagccaag gtgcactggt ggggtggagg    5580
caacggggcc tgccaaggac tctccctccc aaaaagacag gagccaggtc caaggcacat    5640
ttaaagataa acgctggccg ggcgtggtgg ctcacgcctg taatcccagc actttgggag    5700
gccgaggcgg gcggatcacg aggtcaggag atcgagacca tcctggctaa cacggtgaaa    5760
ccccgtctct actaaaaata caaaaaatt agccgggcgt agtggcgggc gcctgtagtc    5820
ccagctactc aggaggctga ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag    5880
tgagccgaga tcccgccact gcactccagc ctgggcgaca gagtgagact ctgtctcaaa    5940
aaaaaaa                                                              5947
```

1971

<210> 3197
<211> 2210
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (378)...(1660)
<223> similar to gi28969 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3197
```
cggacgcgtg ggcacttgcc tccctgcctg cttctggctg ccttgaatgc ctggtccttc      60
aagctccttc tgggtctgac aaagcaggga ccatgtctac ctttggctac cgaagaggac     120
tcagtaaaata cgaatccatc gacgaggatg aactcctcgc ctccctgtca gccgaggagc     180
tgaaggagct agagagagag ttggaagaca ttgaacctta ccgcaacctt cccgtggggc     240
taaggcaaaa gagcctgaca gagaaaaccc ccacaggagc attcagcaga gaggcactga     300
tggcctattg ggaaaaggag tcccaaaaac tcttggagaa ggagaggctg ggggaatgtg     360
gaaaggttgc agaagacaaa gaggaaagtg aggaagagct tatctttact gaaagtaaca     420
gtgaggtttc tgaggaagtg tatacagagg aggaggagga ggagtcccag gaggaagagg     480
aggaagaaga cagtgacgaa gaggaaagaa caattgaaac tgcaaaaggg attaatggaa     540
ctgtaaatta tgatagtgtc aattctgaca actctaagcc aaagatattt aaaagtcaaa     600
tagagaacat aaatttgacc aatggcagca atgggaggaa cacagagtcc ccagctgcca     660
ttcacccttg tggaaatcct acagtgattg aggacgcttt ggacaagatt aaaagcaatg     720
accctgacac cacagaagtc aatttgaaca acattgagaa catcacaaca cagaccctta     780
cccgctttgc tgaagccctc aaggacaaca ctgtggtgaa gacgttcagt ctggccaaca     840
cgcatgccga cgacagtgca gccatggcca ttgcagagat gctcaaagtc aatgagcaca     900
tcaccaacgt aaacgtcgag tccaacttca taacgggaaa ggggatcctg gccatcatga     960
gagctctcca gcacaacacg gtgctcacgg agctgcgttt ccataaccag aggcacatca    1020
tgggcagcca ggtggaaatg gagattgtca agctgctgaa ggagaacacg acgctgctga    1080
ggctgggata ccattttgaa ctcccaggac caagaatgag catgacgagc attttgacaa    1140
gaaatatgga taaacagagg caaaaacgtt tgcaggagca aaaacagcag gagggatacg    1200
atggaggacc caatcttagg accaaagtct ggcaaagagg aacacctagc tcttcacctt    1260
atgtatctcc caggcactca ccctggtcat ccccaaaact cctcctcccc ctccttcttc    1320
ccaaaggctg ccaccacctc ctcctcctcc cctcctcca ctcccagaga aaaagctcat    1380
taccagaaac attgcagaag tcatcaaaca acaggagagt gcccaacggg cattacaaaa    1440
tggacaaaaa aagaaaaaag ggaaaaaggt caagaaacag ccaaacagta ttctaaagga    1500
aataaaaaat tctctgaggt cagtgcaaga gaagaaaatg gaagacagtt cccgaccttc    1560
taccccacag agatcagctc atgagaatct catggaagca attcggggaa gcagcataaa    1620
acagctaaag cgggtggaag ttccagaagc cctgcgataa aaacatgatc tttagaagag    1680
gatgcagaac tgttcagtgg tattacatga aatgcattgt gagatgtttc taaaatacct    1740
tcttcaattc aaaatgatcc ctgactttaa aaataatctc acccattaat tccaaagaga    1800
atcttaagaa acaatcagca tgtttcttct gtaaatatga aaataaattt cttttttatg    1860
tcgtgagatt tgtattggca agaagcagtt aatttaaaga tgctcttcct atctgtggat    1920
gtgttggtaa ctccgagttg taatgagttc atgaaatgtg ctgttatttt tgtaatctca    1980
ataaatgtgg attgaagttt tttcccttt tttaaagcca aactaatatt tttctgtgac    2040
ttgatacatc tgtcagattt ttgtaatctc gataaatgtg tattgaagtt ttttcccttt    2100
ttttaaaaag ccaaactaat attttctgt gagttaatac atctgtcagg tgtgtatgta    2160
acattactgg acattaaaaa aaattattac attctcaccc aaaaaaaaaa              2210
```


1972

<210> 3198
<211> 2041
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2033)...(1278)
<223> similar to gi998472 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 3198
atctttcggg caatgtaact actacagcaa aatgagatat gatccattaa acaacatatt   60
cgcaaatcaa aaagtgtttc agtaatataa tgcttcagat ttagaagcaa atcaaatgat   120
agaactccac tgctgtaata agtcacccca aagatcaccg tatctgacaa aataactacc   180
acagggttat gacttcagaa tcatactttc tcttgatatt tacttatgta tgtatttatt   240
tttttttaatt tatttctctt gagaccggcg tctcgctcct gtccgcccag gctggaagtg   300
cgatggtgtg atctcggctc actgcaacca gccacctccc tgggttcaag cgattctcct   360
gcctcagcca tccccgagta gctgggacta caggtgcccg ccaccacgcc caagctaatc   420
tttatacttt taatagagac ggggtttcac cgtgtcggcc ccggatgggt ctcgatctct   480
tgacctcagt gacccgcccc gcctcggcct cccaaagtgc tgggatgaca ggcgtgagcc   540
actgcagccc ggccttctct tgacgtttaa actatgaagt cagtccagag aaacgcaata   600
aatgtcaacg gtgaggatgg tgttgaggca gaagtaggac cacacttttt cctatcttat   660
tcagttgata acaatatgac ctaggtagta atttcctatg tgcctactta tacacgagta   720
caaaagagta aaacagagag actgctaaat taaagggtac ggtgaagttc ttcataagta   780
actcccgtaa acttggaaca cttgtccaaa aagccagcag ctaggtgaat tgtttccatg   840
tattttttcct atgatccaat aagtgaacta tgctattcct ttccagtcct cccaagcact   900
tcttgtcccc atcaccactt ccggtgcctc gaagaaaaaa ggtaacaaat caaggaacac   960
aacctaaaga aacacacaca caaaccaaag acaactacag cgtctgcaaa agtttgctag   1020
aagactgaaa cctgttgagt ataaggatct ggtattctac gatgatcaat gagttcactt   1080
tcagagtttg ttcaagacat acgtttccgt aaggaaacat cttagttaga agttattcaa   1140
gcagtaggta ccatccctaa gtattttcca ccaaattccg tgacaaataa aagagcctat   1200
ctaaccagaa aaaattaagc cgagtaccgg caccatccca tagggctttt gtcttttacg   1260
cttcattagg cactttccca tgccttacaa tgtctaggat tgaccctgat agcatttccg   1320
aaaacaagct aatgctttgt ccagttcctt cagtgaagac caagctcacg cccctaatgc   1380
gctatgggca taagcatcat tttggattcc acttcgagag ttccctggaa gaattgaatc   1440
ggcaatatcc gtgttcccgg ttgcagaccc gaaacaagtt ccctgcaagc acaccaggcc   1500
tcctggttgg gcgaattttt tatcccatgt ctgtgaagtc ttttgggaca gaactgaaag   1560
agcaacctct ttcggaggat gccaaagtgt tgtagagtag atctccatgc cttcgactct   1620
gtaattctca atcctcctaa cctctgagaa ttgtctttca gcttgcgtgg actctgaaag   1680
tttacaatag gcccttccga tttggcacag tacccacccg gtattgcagt ggtgagaagc   1740
tagatggctc aagatactga tagcttcttt gccgtggtaa gaacacaaag ctaaataacc   1800
tttccccctt tcacgaagaa ggctcatcaa gccttccgct ggtgcttttt gtagattaaa   1860
agcctgaatc tgaggcgcga ttgcggctat cttcccttct gaaatgacgg aagagtccaa   1920
ttttgtcact tccaggctat cacttatgtt cggtggaagt tattgccccc tttattaagt   1980
tttacttttg gttcttcctg tttgggaatt ttaagggtgg aaacttcaat ttttaaattt   2040
c   2041

<210> 3199
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(273)
<223> similar to gi1710216 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3199
```
tttttttttt ttaaaaggga gtcttactct gttgctaggc tggagtgcag gggtgcaatc    60
taagttccct gcaacctcca cctcctgggt taaaacaatt ttcctgcctc agcctcccga   120
ggactgggaa tataggtgca cgccaccaca cccaacaaat ttttgtactt ttagtacaga   180
tgagggttca ctatgttggc caggatggtc tcgatctctt gacctcatga tccacccacc   240
tcggtctccc aaagtgctgg gattacaggc ttgagccacc gggtgaccgg cttacaggga   300
tatttttaat cccgttatgg actctgtctc caggagaggg gtctatccac ccctgctcat   360
tggtggatgt taaaccaata ttcctttcaa ctgctgcctg ctagggaaaa actactcctc   420
attatcatca ttattattgc tctccactgt atcccctcta cctggcatgt gcttgtcaag   480
ttctagttgt tcaataaatt tgttaataat gctg                               514
```

<210> 3200
<211> 1267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> similar to gi5457053 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3200
```
gacgccacgg acacgtcgcc tttcgtgctg tactcgatgc agacggctac gacgccctgc    60
gctgagctgg tgcacgagtc ggccgagcgg atctacatgg tgacaacggt ggtgacggtg   120
aacgacgact ctgcctagaa tgtctggctg tcgtaccagc tgctcaaggc cacgtagcct   180
ggcctgttcg gtgtgtgggc gcacgatgac gaggtgcgca cgtccaggat gctgagcgag   240
cgcgtcgcag ccaagcagag gctggtggtg ctggtcaagg acaatggcga gccttcgcgc   300
tcggccacgc cacagctgca cgtggttctg gtgacgggct actccaagcc tttctccgct   360
tcctatagct ggccccggc cagacccagg ccaactcgct cactgtctac gtggtggtgg   420
cgttggcctc ggtgtcgtcg ctcttcctct attcggtgct cctgttcgtg acggtgcggc   480
tgtgcaggag gagcaggtcg gcctcggtgg gccgctgctc gatgcttgag ggccccttc   540
cagggcgtct ggtggacgta agcggcaccg ggaccctgtc ccagagctac caatacgagg   600
tgtgtctgac aggaggctca gaagcaagtg agttcaagtt cctgaagccg attatcccca   660
acttctctcc ttagggcact aggaaagaaa tagattaaaa ttccaccctt cacaatagct   720
ttggatttaa ttattgatag gaacccattt gataaattcc ttaacttctt atgattgtct   780
```

1974

```
tgttgattaa attgttcatg ctcaccacca ccaataaggt attttttctct gattgttagt      840
tcaaattata ttgttaattc cagtttccct tttcctcata tttaccccga agaggtgttg      900
catatagaat cccaattaac aaaatatact ttatcttcaa agttgatgtc atttaaaatt      960
tttccgtctt tatattttat ttacttccta ttcatttttt gctccatttt tcatgttact     1020
tctcagtttc ctagaacttc aagtattaaa ataacctgtt gcatgtatta ggcatatttc     1080
ctatgttaca tttcttttgt ctattttcct ttcaaaattg gtatttttgt tgggctcaat     1140
tttcattata atactttct taaagccgct ttctttcttt tcttttcttt cttttttttt     1200
tttcctttt ggaaacgggg ttttctttt gcccccccgg ttgaagggca gggccaaatt     1260
ttgtgtg                                                              1267
```

```
        <400> 3201
tctggcggaa ttacacagaa ccctacctga gcaggcaccc ccaatttgct caatattttg       60
ttgacttcag agaaacaaag aatggttta gaaaaagcta aggaaaaggc tgatcttatt      120
cacactgact ctcccagtaa tccagtaagg gcagctgctc atattgcagt tcccacctct      180
gacctgggat ggaatataaa cactggagat agatctaacc ttgaacacta tcaaaactgc      240
attttgatca gcctctgcaa gggagtgccc aagcaaagga gcctcaataa ggtccaggat      300
ggtcaagcag aagcctaatg agggttgctt tggaattctt agaacaagtc tttgaagctt      360
tcagagaata aatggatatt gacccagaag ccccagaaaa tttgatgata gctaacatga      420
tgtttatcca acaaagtgcc ccagatattc agagaaagtt acaaaacgta gctgaggcat      480
tggacatgtt tttgtctcaa ttagtgaaga ttgttttaa tgtatttact gatcacaagt      540
ttaaagagtg gaaaataaaa cacaaggaat aatgaaaatg gcaagctgac ttgttatctg      600
tggctctgac cctagtagtc cctggaccac aacaagggcc gtcatcagac actccatcta      660
tggtagaacc acctgggccc ccaaaagcca ataaaaacgg acatcccatt gcaggtccca      720
accagtgtgc ttactgcaac aggggggaca ctgaatggaa aatttctcat gccttacaaa      780
gcctgatgtt aaacagtcag ccttctgccc accaaatgcc tgggatagct ggngagcttg      840
agagagatac taaagaanaa gaccagaaat ggtaa                                875
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (12)...(754)
<223> similar to gi6002478 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 3202
agtgtggtgg aattctttgt attcatcagg gagtacacac agggaaaaag ccctataaat   60
gtgaagagtg tgggaagggc tttgatcaga gctccaacct tcttgtccat cagagagtcc   120
acactggaga gaagccctac aaatgcagtg agtgtggcaa gtgctttagt tcaagctccg   180
ttcttcaagt ccactggagg tttcacacag gggagaaacc atataggtgt ggtgagtgtg   240
gaaagggctt cagccaatgt acacaccttc acattcacca gagagtccac acaggggaga   300
aaccatacaa atgcaatgtg tgtggaaagg attttgcgta tagctctgtt cttcacactc   360
atcagagagt tcacactgga gaaaaaccat ataaatgtga agtgtgtgga aagtgcttca   420
gttacagttc atattttcac ttacatcaaa gagatcacat cagagagaaa ccatataaat   480
gtgatgagtg tggtaaaggc ttcagccgga attcagatct taatgttcac ctcagagtcc   540
acacaagaga gaggccctat aagtgtaagg catgtggtaa gggcttcagt cgtaattcat   600
acctccttgc ccatcagaga gtgcatatag atgagacaca gtacacacat tgtgagcgtg   660
gaaaggacct tctgactcat caaagactac atgagcagag agaaacatta taaatgtagt   720
aagtcagggt tcaattagta aaacagaagc cacactgtat tccagatgat agaggcttac   780
tcagcctgtg ggagggctag gggagcaaaa gacagggaca ctgccatcga taatgtcagc   840
ctgcagcact gaagtgtgcc aggccaagga ctgtggattt caagaacttc tgtgaagctc   900
ccatcaactg ctgtatgcta caatggcaag aggttacttt tgacaaatgg gtggtttgtg   960
gtagtggttg tagttagtgg tcaaatttcc attaaagggt gtgtccagga aggaaattct   1020
aattgggatg atcatggtaa ggtcttcagt tcagccaacg tctttagatt ttttttttagt   1080
ccccagtaga aaaatactct ctgtatgaag aacattcaaa agtgtgctca aaaatgaaac   1140
ccatgctctt actatgaaag aacgttagta cccaggtttt ccatgagatt ctctacacag   1200
gcaagaagct ccatagaagt ggcatttgaa gggtgtggca gaggcagtgc tgtgtttatc   1260
acactggttc catttccttg caaataagaa gtctatttcc cagtaaccct tgcagttaag   1320
agtgtgccca tgtgattgag ttctagccaa tggagtgtga gcaaaagtga tataagccac   1380
tttcaggtct agcctttaca aacatcctca ggcttctcta tccctgccaa ggtgaccttg   1440
gaggctgctt attccagact gggttgatag aaggtcacta cttcatctgt gttggatttc   1500
tttttagagt aagaaataaa agttcattgt gtctcaccac tgaaa   1545

<210> 3203
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (52)...(376)
<223> similar to gi2072955 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

```
        <400> 3203
cccacgcgtc cggacatatg ctactcaaac tgtcaagaga cagagacaaa tagaatcttg      60
aaagtagcaa gacaaaaatt actttttcatg tacatgggct cctcaataac attaacagct    120
gacttctcat cccacatcat gaaggccaaa aggcaatggg atcatatatt caaagtgcta     180
aaagaaaaaa ctgccattca agaattctgt atccagcaaa actatccttt aaaatgagga     240
gaaattaaga cattcccata taatcaaaaa ctgagagaac ttgtcattag cacacctacc     300
ctacaagaaa tactaaaggg agtccttcat actgaaatga aaggatacta gacagcaatt     360
caaatccaca ttaagaaata aggagcacca ataaagactg tatatatgta tataattgat     420
agtataaatt tacttttctt .t                                             441




        <210> 3204
        <211> 1859
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (444)...(1058)
        <223> similar to gi337485 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




        <400> 3204
acccagtccc tgagagagct catctcagat ctggagcatc ggctgcaggg gtcagtgatg      60
gagctgcttc agggtgtgga tggcgtcata aaaaggacgg agaacgtgac cttgaagaag     120
ccagaaactt ttccaaaaaa tcaaaggaga gtgtttcgag ctcctgatct gaaaggaatg     180
ctagaagtgt ttagagagct gacagatgtc cgacgctact ggggtaagga gaagtcacat     240
tatcataagc caccctgcgg cttatcatta ttattatctt tatcttttag aattttatgt     300
tctctattag gctcatgttt taagatttat gattctcctt ccaagacaca cataacttac     360
ccctccttat aacttctaaa caaggttcct cccagttttc tctcaagtct ttatcaagat     420
ttctctcata tcacaaataa agttacatta tatcccttag ctgacctgtt aatttttcta     480
cagttgatgt gacagtggct ccaaacaaca tttcatgtgc tgtcatttct gaagataaga     540
gacaagtgag ctctccgaaa ccacagataa tatatggggc acgagggaca agataccaga     600
catttgtgaa tttcaattat tgtactggca tcctgggctc tcaaagtatc acatcaggga     660
aacattactg ggaggtagac gtgtccaaga aaactgcttg gatcctgggg gtatgtgctg     720
gcttccaacc tgatgcaatg tgtaatattg aaaaaaatga aaattatcaa cctaaatacg     780
gctactgggt tatagggtta gaggaaggag ttaaatgtat tgctttccag gatagttcct     840
tccatactcc ttctgttcct ttcattgtgc ccctctctgt gattatttgt cctgatcgtg     900
ttggagtttt cctagactat gaggcttgca ctgtctcatt cttcaatatc acaaaccatg     960
gatttctcat ctataagttt tctcactgtt ctttttctca gcctgtattt ccatatttaa    1020
atcctagaaa atgtggagtc cccatgactc tgtgctcacc aagctcttga accttcttac    1080
acactcagcc ccttctgtac agcacctctt gtccaggtgc atctcataca cctgaactca    1140
tttgcatcat tttaaccatc ttttccttgc tgtctccctt ctttctattt gaacgtcctt    1200
cactcatcag taaaatgtaa taattgcctt gtgccatatt gtccccaata tttttattgac   1260
atttgatagc aatttttttc atcattttcc gtactcctaa ggaaaactga cctatacctc    1320
ataaaatgag accgctattt aggtattact tctgccagat atttatcacc caattgcctc    1380
tgacactgac taagaagatg aagaaaagct tttcaacagc ctttctatat catcgtgtga    1440
taattgttca ccaatgaatg agtccttagc cctgtgtcag tttaccctcg atgcccttat    1500
ttgtgagtta aagagaaaat atcataaatg gtatactctt aagtatagag gttttgtatc    1560
tagaggatct cagttcaact cctgtctctc catataccag cagtgtaact gtgaataaca    1620
tacttaaatg gctgtgctta tttccttttc ttttcttttt tctttttttt ttttttggaa    1680
```

1977

```
aaaaaagttt tgttttgtc ccccaggctg gagtgcaatg gcacgattct cggttcactg    1740
caacctccac ctctcagatt caaggcaatt ctcctgcctc agcctcccaa gtaggctggg    1800
gatttacagg tgcccaccac caccCctggg ctaaaatttg tattttcagt agagacggg     1859
```

<210> 3205
<211> 982
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (91)...(820)
<223> similar to gi337663 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3205
```
ggaaggaacg gggtggccac gagctgtgag ggagatggat ttcacggaca accagacagg      60
cctcggtggt aacaacgaaa gggaaaactt agaatccaga attgctacaa atgtattatc     120
taaaatacaa agaagtatga cagtgtgacc catactgagg aagaacatca tcagtagaaa     180
ctgtctgagt gtccagatgt tgaatttagt aaaggcttgg aaacaacttg tggatggagc     240
agtagaaatt atccattctg aagaacagag agaaaaaaac aagaaaaatg cacagagcct'    300
cagaaacccg tggtacaaca tctgctgtac caaagcatgt cgaatggggg ttccaggaga     360
gaggaaagat atttgttaca ataatggtta aaaactttcc aaattttaat taaaaaatat     420
gcacattcaa gagcacagga agtttgaact agaataaatg caaagtcaca tcatagtcaa     480
actggcaaag gccaaagaga aaatgttgaa aggcgtcaga gaagaatgac ccatcccatg     540
aaagggagc ttcaataccg ccagccactg acttcttaga aacaatggag accagaaggc      600
agtggagtgg catactcaag ctgctcagag agaagaacca tcagccagga atcaaaaccg     660
ttctacacaa gtgaaaggga acgaacgaca ttccctgaga agcagagact ggtgggattc     720
attgttggcg aaacctgcct taaaggaaat actaaaggaa gaccttcaag ttgaatagaa     780
atgacaccag acggtaactt gaatcctcag gaaggaagga caggcactgc agatggcaag     840
tgtaggttga cgtcaatatc ctgtaaatat ctctcctcac atcttaggtt ttactggaac     900
tacgattgta taaaataatt acactgttgt catggtatgt ggcataaatg gactgcacaa     960
agaagacagg gtattgagct ct                                             982
```

<210> 3206
<211> 1773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1559)...(267)
<223> similar to gi4263748 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
      <400> 3206
tttttttttt ttgttcaatg aacataaaat aattttatta aatataacaa aaattaaaac        60
ataacaaaag tatcacagta ttatagtacc atttaaatat aacatagaaa aatactacaa       120
aataagaaat acaaagacaa aagctaggta agattttat ttactatgat gggtgtgctt        180
gcctgttcat aagttcattc cagtctggaa cacaggaaga taatgctacc cgcataactg       240
ctgcacaatt cagcccattt cttctttg ttttaactg cgttaagatg gaaaacccta         300
gttcacacaa actagttgtt gtgaatggta gcaatagcca ggacactctt tctacttaac       360
aatggaaagt cttcctttac cttcatccaa aatgctgata aacttaaggt ttcataatca       420
ttcttcaatg tatatgaaga actaagctgc aataattcat tctcttcttc aggcaccaag       480
tttagctcaa ttattgattc agggtttcga aaagcaaatg gatctttac ccaactgttt        540
tcccttaatg tttcaaattt ttcttctgga aagaaatggt taaaagtttg agacagagaa       600
gtgagatgca acaatatctc taattttatt tctttcaaaa tgttttcatt aataatattc       660
tcttcaatat gctgcaaaaa tcttggaaac atgtaatagc taggacgatt acttttaagt       720
cttacttgcc ataacaataa tgtctttcga aatccctgga tacgttcaac atgttggaat       780
acatcactgt ttttcccctg tagttttaaa ctcagttcat taagaatgct aaaaatatca       840
gttaaatatg ccaattttgt tacccaagta tcatcttcaa aaatacttgc caaatgagat     · 900
ttttttttcaa tgagaaaaaa gtgaatctca ttcctgagct cataaaccct gcttagtatt       960
ttcccttgag acaaccacga attttggta tgatatagta agtgggtatg attagttcca       1020
atctctgaac aaaatgtttc aagaagccgg ctattcaatg agcttccttt aataaaatta      1080
acaactttca ctgcattttt caatacctcc atgagattct gtggaatttc tctggatgct      1140
aaaccttcac gatgtataaa acaatgattc cacacagcac cattattagt aacttctagt      1200
aatttttaa ttactctgct atgttttcca gtcatggttg ctgtgccatc acttgtaatt      1260
cctttacagt ttttccagtt taatttatat tggccaacta tgcgcctttc taattctgta      1320
aaaatatcta atccacttag gtgtgaggtt aaatttaaaa aacacaaaaa atcctccaaa      1380
aaatcatctt gccacgcata tctgacataa actaaaagtg ttgtgcagct tccaatatca      1440
gtgctttcat caagctggat tgcaaaatct atcccagact gtaaacgagt aataagcatt      1500
gtttataaat gttctgcaat agtacaaatt cgaagagata ctgtgttatc attaggtata      1560
gtttttaatt tatcagctga tttatcatca aatattgtac gcaccatatc caaacatgct ·    1620
ggaagaataa ttttttcagc agctgtgtta gctattttct cttttgccac acgatatgca      1680
cctaaatatg atgataataa gacaactctc tacagcagta gaacacttaa gaaattgtgc      1740
gggggcgtgg gtcgacacgg gaattcgggc gct                                    1773


      <210> 3207
      <211> 1799
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1789)...(626)
      <223> similar to gil86774 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters



      <400> 3207
tttttttttt ttcttttaaa ggttttatct tttattagca tttcatcctc acaaaaatac        60
tattaggtgg tactgttatt accattttaa aaaccaaggc acaggggcat gttttgccaa       120
acaccacata ggcagaggtg gaattatgag aattatatta tttatatata tcataaagat       180
aggccaaggc tggtctttcc catgttcatt acattaacag aatcattttc cgttacagtg ·     240
```

```
ctatataaag tgtggtccat gtgttgacac tggcccacaa attgtttgct tgctggtctct    300
gcaaaagtta tagataccaa gagcaagtat ttagaaatgt ttgcagcaat ctgacagagt    360
taactcagtt aaataccata ataaaaaact ggggctttta ttttgtatgt ctgttttttt    420
cgttttcatt tttcgtggta atctatttat ttatttattt aagagacaga gtcttgctct    480
gttgcccaag ctagagtgca gtggtgcgat ctcagctcac tgcaacctct gccacttagg    540
ttcgatgcaa ttttcctgcc tcagcctcct gagtagctgg gattacaggc accccccaca    600
atgcctagct aatttgtgta ttttagtaga gaaggggttt caccatgttg gccaggctgg    660
tcttgaactc ctgacctcag gtgatctgct cacctgggcc tcccatagtg ctgggattac    720
aggtgtgagc cactgtgcct ggcccgcatt ttatttattt atttagagac aggatctcac    780
tctgtcacca agctggagtg cagtggcaca atcatggctc actaaagcca tgaggcaggg    840
tctcactatg ttgcccaggc tggtttcgaa ctcctgtctt tccacagtgc tgggattaca    900
ggtgtgagcc acttcacctg gcccattatt attgcatttt agagaagcac tgttcaacaa    960
cagtttgtag gggaaaaggc ccttgatggt ttgggatgca gtgcatcagt atcaatcttc   1020
taaagcctaa cagggactga gtgatgctat agtctttcga ctctttaaca tacgaaataa   1080
tttctgataa attgtgagca tgaagtaaaa gggattccca catgttccgt aacaaacaga   1140
aaatttctta aattacaaat tctctgctaa agggcatttt ctaaaggcca tcgtattctc   1200
tttacattat gcataggact tcctcactaa tatgatttct ctgatgtaaa gtaagttgat   1260
cactacgaat aaaggctttt ccacattctt tacattgata gggtttttca ccagtatgaa   1320
ttctgtgatg tcgagtaagt tctgaattaa cactgaaggc tttcccacat tctttacatt   1380
tatagggttt ctcacccgtg tgaactatgt gatgtcgagt aagttctgct tgaagacgaa   1440
aggcattccc acattcttta cagctataag gtttctcacc agtatgaagt ctaaaatgtt   1500
gagtaagatg ataccgacga ctaaaggtct ttccacattc cttacattca tatggaagct   1560
caccagtgtg aattctttga tgtaatgtaa gtcgataact gcaaataaaa gcattcccac   1620
attcattaca tatgtagggc ttctcaccag tatggcctct gtgatgttga gtaagatgat   1680
agtgccgact aaacgtcttc ccacattccg tacattcgta gggtttctca ccagtatgaa   1740
ttctgtgatg ttgcgtgaga tgagtgctac gaataaaggc cttcccaccc acgcgtccg    1799
```

```
        <400> 3208
actctcacaa ttaaaacatt tggaaaggaa ttaatggtgt atttccatta gggaaagtgc     60
tgacaagccg caagggatcc cttgatggtt ctgggcatgg gcgcccagcc tgggctctgg    120
ctttgggagc agcgagggga atgtgtctct caccctagg cctcctggtc tggctcctgc     180
tcaggccaca cggcgcaccc accccagcg cgcctcagtc caggtcactg gcagggtgt      240
ttactgctgc gctccaaccc aagcatgtag atttcagaag gggactagga cccccggcag    300
gtgtttgaga ccaccggctc ccaagtgcgt cgccttgggg gtttgcatcg gctcctcagc    360
ctccccaggc aatctctgtg tagggtcggg agcgggaggt ctgagttgag ccgggtgcct    420
gagatctccg gtgcaggtcg ggggagggga gcccccctcg ggctgtggtt agagcgggag    480
aggaacttcc cagactagct ggcacagagc ctcgggaagg cggcgggcac tgcaggtggt    540
ttacgggaag tgctgcagcc ttggggtggg gacagcgtgg ccagacccac cgcctcatct    600
gcacacctgg gctcaagcgc taatgacgac aggggactga gtgaatggga cccccatgga    660
```

1980

```
cccgcgcgcc tgccccacgc catggcctgg gtttcgggag ccttgcttta ttctgcctcg      720
ggtcggaggc tgggggagcg agacctccag tgcccgtgcg gctggggggag agggtggagg      780
ggccacttag atgtaggagt catcaccacc gggcgcatcg tagggacccc cacccctccc      840
cgcgccctcg ccctcatcgc cgctgccgga gtcactggcg ccatccacgt ccagggtggg      900
cgcgttgaga acgaccacgt ctgcctccgt cccgatgtcc tcgccaaacc agacagcctt      960
gtacccgccc tctggccgcc gctccttggt caggatggac ctcaccgccg tggggcttcc     1020
gccagctcgg gccgctgcgg ggggctcaag ggcaccgcct ggggaggcag ggccggggggg     1080
tgcgggctat gcgggcatcg gtgcctccgc gggcttgggg tcgtgcgtgg ggctggggac     1140
```

<210> 3209
<211> 2948
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (16)...(2214)
<223> similar to gi4079809 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 3209
```
cccccctttgt caacaacaac ccggggaacc tcttacacat ggggccaaaa agccgctacg       60
gcccggctgg ggcacagcga acagtgaagg acccagctga aagccgaaag ctggtggaag      120
gcgctgcagg gcccaccgtg tggttgacat cgcctgtggc agtggagatg cccagaccct      180
ctgcctcaca gatgacgaca ctgtctggtc ctgggggggac ggggactacg gcaagctcgg      240
ccggggaggc agcgatggct gtaaagtgcc tatgaagatt gattctctta ctggtcttgg      300
agtagttaaa gtggaatgcg gatcccagtt ttctgttgcc cttaccaaat ctggagctgt      360
ttatacctgg ggcaaaggcg attatcacag gttgggccat ggatcacatg accatgttcg      420
aaggcctcgg caggtccaag ggttgcaggg gaagaaagtc atcgccatcg ccactggctc      480
cctgcactgt gtgtgctgca cagaggatgg tgaggtttat acatggggcg acaatgatga      540
gggacaactg ggagacggaa ccaccaatgc catccagagg cctcggttgg tagctgccct      600
tcagggtaag aaggtcaacc gtgtggcctg tggctcagca catacccctcg cctggtcgac      660
cagcaagccc gccagtgctg gcaaactccc tgcacaggtc cccatggagt acaatcacct      720
gcaggagatc cccatcattg cgctgaggaa ccgtctgctg ctgctgcacc acctctccga      780
gctcttctgc ccctgcatcc ccatgttcga cctggaaggc tcgctcgacg aaactggact      840
cgggccttct gttgggttcg acactctccg aggaattctg atatcccagg gaaaggaggc      900
ggctttccgg aaagtagtac aagcaactat ggtacgcgat cgtcagcatg gccccgtcgt      960
ggagctgaac cgcatccagg tcaaacgatc aaggagcaaa ggcgggctgg ccggccccga     1020
cggcaccaag tctgtctttg ggcagatgtg tgctaagatg agctcgtttg gtcccgacag     1080
cctcctcctt cctcaccgtg tctggaaagt caagtttgtg ggtgaatctg tggatgactg     1140
tgggggcggc tacagcgagt ccatagctga gatctgtgag gagctgcaga acggactcac     1200
gcccctgctg atcgtgacac ccaacgggag ggatgagtct ggggccaacc gagactgcta     1260
cctgctcagc ccggccgcca gagcacccgt gcacagcagc atgttccgct tcctgggtgt     1320
gttgctgggc attgccatcc gaaccgggag tcccctgagc ctcaaccttg ccgagcctgt     1380
ctggaagcag ctggctggga tgagcctcac catcgcggac ctcagtgagg tttgataaag     1440
gattttattc ctggactcat gtacatccga gacaatgaag ccacctcaga ggagtttgaa     1500
gccatgagcc tgcccttcac agtgccaagt gccagtggcc aggacattca gttgagctcc     1560
aagcacacac acatcacctt ggacaaccgc gcggagtacg tgcggctggc gataaactat     1620
agactccatg aatttgatga gcaggtggct gctgttcggg aaggaatggc ccgcgttgtg     1680
cctgttcccc tcctctctct gttcaccggc tacgaactgg agacgatggt gtgtggcagc     1740
```

1981

```
cctgacatcc cgctgcacct tctcaagtcg gtggccacct ataaaggcat cgagccttcc   1800
gcatcgctga tccagtggtt ctgggaggtg atggagtcct tctccaacac agagcgctct   1860
cttttccttc gcttcgtctg gggccggacg aggctgccca ggaccatcgc cgacttccgg   1920
ggccgagact tcgtcatcca ggtgttggat aaatacaacc ctccagacca cttcctccct   1980
gagtcctaca cctgtttctt cttgctgaag ctgcccaggt attcctgcaa gcaggtgctg   2040
gaggagaagc tcaagtacgc catccacttc tgcaagtcca tagacacaga tgactacgct   2100
cgcatcgcac ttacaggaga gccagccgcc gacgacagca gcgacgattc agataacgag   2160
gatgtcgact cctttgcttc ggactctaca caagattatt taacaggaca ctaagatggg   2220
gaaacgtcct cgtgagatga gagcctgagc caggcagcag agcactcgct gctgtgtaga   2280
ctgtaggctg cctggtgtgt ctgatgagaa gcgtccgtcc tcgagccagg cgggaggagg   2340
gagtggagag actgactggc cgtgatggga atgacagtga gaaggtccgc ctgtgcgcgt   2400
ggaacactgt ggacgctcga cttccaaggg tcttctcacc cgtaatgctg cattacatgt   2460
aggactgtgt ttactaaagt gtgtaaatgt ttatataaat accaaattgc agcatcccca   2520
aaatgaataa agcctttta cttgtgggtg caatcgattt ttttttcttt ctcctttctt   2580
tcaagtgtcg tgagtcgtct tgattgtata ttggaaataa ctgtgtaaca aatcgtatta   2640
taaatatttc aattaatttt actctgaatt tgtttattaa aagactttg aacatgaaat   2700
gattagtatt acttgaatgc atccagagga taatttaaac caaaatgaaa aaccagaagg   2760
ccatttggtg tcccctctcc caggtgtccc cttgtagcat atgcattatg tcatctgaat   2820
tgaggccttt ctgtgaacag catcataact tctatcatgg aaagtgtact atatataatg   2880
tttgtgtcat gtatatgcct aaattttaat tatctataaa taaaacatct gacataaaaa   2940
aaaaaaaa                                                             2948
```

```
        <400> 3210
ctggctccgg ctgcgagcag ggatgtccgc ccgggcggta tgggccaggc tgtgaacagc    60
tgtgtgggtg tctcaacggg ggctcctgtg atgcggccac gggggcctgc cgctgcccca   120
ctgggttcct cgggacggac tgcaacctca cctgtccgca gggccgcttc ggccccaact   180
gcacccacgt gtgtgggtgt gggcaggggg cggcctgcga ccctgtgacc ggcacctgcc   240
tctgccccc ggggagagcc ggcgtccgct gtgagcgagg ctgcccccag aaccggtttg   300
gcgtgggctg cgagcacacc tgctcctgca gaaatggggg cctgtgccac gccagcaacg   360
gcagctgctc ctgtggcctg ggctggacgg ggcggcactg tgagctggcc tgtccccctg   420
ggcgctacgg agctgcctgc catctggagt gctcctgcca caacaacagc acgtgtgagc   480
ctgccacggg cacctgccgc tgcggcccg gcttctatgg ccaggcctgc gagcacccct   540
gtcccctgg cttccacggg gctggctgcc aggggttgtg ccggtgtcaa catggagccc   600
cctgcgaccc catcagtggc cgatgcctct gccctgccgg cttccacggc cacttctgtg   660
agagggggtg tgagccaggt tcatttggag agggctgcca ccagcgctgt gactgtgacg   720
gggggggcacc ctgtgaccct gtcaccggtc tctgcctttg cccaccaggg cgctcaggag   780
ccacctgtaa cctggattgc agaaggggcc agtttgggcc cagctgcacc ctgcactgtg   840
actgcggggg tggggctgac tgcgaccctg tcagtgggca gtgtcactgt gtggatggct   900
acatggggcc cacgtgccgg gaaggtgggc ccctccggct ccccgagaac ccgtccttag   960
```
```
                                1982
```

```
cccagggctc agcgggcaca ctgcccgcct ccagcagacc cacatcccgg agcggtggac   1020
cagcgaggca ctagtagagg cagtcccgtg gagcccgcct ctccagtccc agccagaggg   1080
gaccctggcc tttggtgacc actgagaagg acacttcacg ggcccagagc tcctggtact   1140
gcccttcctt tgagggccgt ggagggctgt ggacagccca gcaacctgtc gctcttggag   1200
gctggtgtgg ccttgaggag ggaagcctcg catggccgct ggaagagagg cgcctcctgg   1260
cctggctctg cagaacccag gggcacgctc tgggcctggg ctgaggaagt cccgctctcc   1320
ccgcggctct gagttggact gaggacaggt gtgggcgcca gtgtgggtgc aggcgcaggt   1380
gcaggcacag ggccactgtc ctccaggcag gctttttggt gctaggccct gggactggaa   1440
gtcgcccagc ccgtatttat gtaaaggtat ttatgggcca ctgcacatgc ccgctgcagc   1500
cctgggatca gctggaagct gcctgtcatc tcctgcccaa tccccagaaa ccctgattca   1560
ggtctgcagg ctcctgcggg ctcaccaggc tgctggctcc ggtaccatgt aaacctagga   1620
aggtaaagga gcaggcaacc tcctcgtggc ctgtgtgttt gctgtgttac gtggactctg   1680
tgtgggctcc tccctggggc ccggccagca taacggtgca cccagggacc tcccagtgca   1740
cccggggccc tttgcagggg tggggggtgcc acacaagtga agaagttggg actcatctca   1800
gttcccagtg ctattgagga gaacgctggg gctgcattca ttaccgctga acccagaga   1860
ctggctgttc ccagagaatg gcccaggggg aggagggctg gtgtggaggg gcaacctgga   1920
ctgaggccga actcccttgg gctcacccca cccaccccta cctgagcatc agcagtgggg   1980
ggagggcagc atcgcagggg cagggactcc ctgggtgagg acagaccagc cctcccgagc   2040
acctggcact catgggctga ggctgacttc tcctggaaga agggcccaga gtggaaggaa   2100
gaggcagagg gtagaggtgg tggctggggg ctcctctgca gagtgggggtg gccaatggag   2160
agggctgcac tcacaccgca acataggact ctctctccct taagaaggcc cccttagggt   2220
ctgggctgcc gcccccatca ccctaaaacc agccaaggta gctgaggccc cagggcagac   2280
aatttcacca gcaggaggag gaggagtcca gtgagcttgg ttgctcacag acagcaaggg   2340
agctgtcaca gaggaagctg atgaatggac cgctgtgggg agactttaaa gtagaacagt   2400
gataagggag ggcaggatgg tggggatgca gaagcagcag ccagagagag acggactggg   2460
gtgcagacgg agtgtggaaa acgcatacct tgaaatgaag catccagcag atggggtgag   2520
tggatacagc tcaggagatt ctcccaggaa tagcagggag gcgtaaagag agacaacgta   2580
cagagataga tgaatggaaa tgggtaaggg aggtgttcat tcacatccat ctaactgcaa   2640
aatacaaaag taagaagtca ttgacatgaa gcaacgacga ccaagacgtt ctcagatcta   2700
aaggtgaatg atctcagtca gcctggaaat gcacaaggtg gaaaaataac ataaaaaagc   2760
cataagacct tgaagaacat caatgtcaaa gataaattct aaagtcccag agaaaaaaga   2820
atgggaatca aattgacctc agactatacg tgagaaacac ggagagccag aaaactgtga   2880
tgttccatcc tcagagtttg aaggaaatat ttgaaggctg aattttacat ccagctaaac   2940
tatcaaaggc atgcaaagtc catgttattc ttaggccttc aagctcaggc attttttctac   3000
agaaaagcct gattttaaaa tgctcttaga gacggttctc cagccagaag agaaagaagc   3060
caggagggtg ctctgagata ttcagtcacc acagttccca aatggcctag gaattcagag   3120
agtcagaata tcaccattac tccccaatgg gaaccccega cagtctcagc atggtgtgag   3180
ggtgtggacg ggggcctgg caggtaccaa tcactcatcc cgctcagtga agacacagtg   3240
ttcagctacg gaagccataa ggcaggccga gcttctgccc atccggagga aatctcagct   3300
atccaacggc ggtcaggagc agaggaaaat aaagcagaat aactagaaaa cacgctcaca   3360
gatcctaatg ttaacggtta caaatgacga cggaaaaaca aactcctgac catatattat   3420
atagtttcaa gcagcaagaa ggaggatatt gaacattctc aacacacata ataaacgctt   3480
gagatgatga tatgctcatt accctgattt gatcactaga catcccatgt atcaaaacat   3540
cactgtgtat ccgatgaata tctacaatta ttgtcaatta aaaacatcat taaaaacaga   3600
ctagactgca ttaaaaatat aaaaaaaaaa                                    3630
```

<400> 3211
```
cttttaaat tgggttatct tttgttaagt tgttaagttg attcctagta ctggactttt    60
atcaggtaag tgatttgcaa gtattttctc ccattctgta ggttgtcttt cttgataata   120
tcttttaata tataaaagtt ttaaatgtta atgaaatcca atttattttt aaataaattg   180
gatgtatatt gttgctcatg ctgttggtat cataaataag aatttattgg caaaatcaag   240
gtcatgaaga tttatcactt tttcctttat ccctaggttt tatagggttt gctcttacat   300
ttaggtcttt aatatatttt tgtatctagt atgaggtaga gatctaaatt cgttcttaag   360
catgtggata ttcgcctgtc tctgcactat ttattgcgaa gagtatcctt ttctcattaa   420
atggtcttga cacccttgtt gaaaatcagt tggccataga tacatgggtt tatttctgtg   480
ctctcagttc tattccattg atctgtatat tatacttttg ctagtaccac actgttttgg   540
ttactgtaat tttgtagtaa gttttgaaat cagaaagcat agagttcttc ggttttttct   600
tcttttttcaa gtttccttta gctacagagt ttcctgcaat tgaatgtgaa tttgaggatt   660
ttcctttcca tttctgcaaa aacagccaat taggttttga taaaaattgc attgaatctg   720
tagatcaatt tgggtagaag ttgccatttt aaaaatattt agccttccgg gccaggtggg   780
gtggctcacg cctgtaatcc cagcactctg ggaggctgag gtgggcagat acctgaggtc   840
aggagttcga gaccagcctg gccaacatga tgaaaccccg tctctactaa aaatacaaaa   900
attagccaga cgtggtggca ggcgcctgta atcccagcta ctcaggaggc tgaggcagga   960
gagtcccttg aacccaggat ggggaggttg cagtgagcca agatcatgcc attgcactcc  1020
agcctgggga caagagtgag gcttcgtctc aaaaanaaag aattccnccg cnctgngcta  1080
atggactcga tg                                                      1092
```

<400> 3212
```
aacagattca ggagctgaat aaaaccccaa caagataccc atgctatgac acattcataa    60
taaaactcct aaaactaaaa gcaaagaaaa aaattgataa catccagaaa gaaaaggaac   120
gacacattgc tgatagaagt cccgttagat tgacagccga cctctcatct gagaccctga   180
aggctcaaag gatgcgccac aaggtacttc aagcactgaa atgaaagacc tgtcaaataa   240
attctctatc cagtgaaaac acacttcagg aaatgaaggg gaaatgcaga tgttctccaa   300
```

```
caaggaaaac gaagaggaat tgttaccaac gagctcaccc ttgaagaatg gctaaaggag      360
cttctccaca cagaaaggaa ataactggag aaaacctgga atcttgttag caacgacaac      420
agagagcact aga                                                         433




        <210> 3213
        <211> 2389
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1541)
        <223> similar to gi1816586 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




        <400> 3213
gcccggattc ttctggataa tgaccattac gccatggaaa aattgaagaa aagagtactg       60
gaatacttgg ctgtcagaca gctcaaaaat aacctgaagg gcccaatcct atgctttgtt      120
ggccctcctg gagttggtaa aacaagtgtg ggaagatcag tggccaagac tctaggtcga      180
gagttccaca ggattgcact tggaggagta tgtgatcagt ctgacattcg aggacacagg      240
cgcacctatg ttggcagcat gcctggtcgc atcatcaacg gcttgaagac tgtgggagtg      300
aacaacccag tgttcctatt agatgaggtt gacaaactgg gaaaaagtct acagggtgat      360
ccagcagcag ctctgcttga ggtgttggat cctgaacaaa accataactt cacagatcat      420
tatctaaatg tggcctttga cctttctcaa gttcttttta tagctactgc caacaccact      480
gctaccattc cagctgcctt gttggacaga atggagatca ttcaggttcc aggttataca      540
caggaggaga agatagagat tgcccatagg cacttgatcc ccaagcagct ggaacaacat      600
gggctgactc cacagcagat tcagtaccc caggtcacca ctcttgacat catcaccagg      660
tataccagag aggcaggggt tcgttctctg gatagaaaac ttggggccat ttgccgagct      720
gtggccgtga aggtggcaga aggacagcat aaggaagcca agttggaccg ttctgatgtg      780
actgagagag aaggttgcag agaacacatc ttagaagatg aaaaacctga atctatcagt      840
gacactactg acttggctct accacctgaa atgccgattt tgattgattt ccatgctctg      900
aaagacatcc ttgggccccc gatgtatgaa atggaggtat ctcagcgttt gagtcagcca      960
ggagtagcaa taggtttggc ttggactccc ttaggtggag aaatcatgtt cgtggaggcg     1020
agtcgaatgg atggcgaggg ccagttaact ctgaccggcc agctcgggga cgtgatgaag     1080
gagtccgccc acctcgctat cagctggctc cgcagcaacg caaagaagta ccagctgacc     1140
aatgcttttg gaagttttga tcttcttgac aacacagaca tccatctgca cttcccagct     1200
ggagctgtca caaaagatgg accatctgct ggagttacca tagtaacctg tctcgcctca     1260
cttttttagtg ggcggctggt acgttcagat gtagccatga ctggagaaat tacactgaga     1320
ggtcttgttc ttccagtggg tggaattaaa gacaaagtgc tggcggcaca cagagcggga     1380
ctgaagcaag tcattattcc tcggagaaat gaaaaagacc ttgagggaat cccaggcaac     1440
gtacgacagg atttaagttt tgtcacagca agctgcctgg atgaggttct taatgcagct     1500
tttgatggtg gctttactgt caagaccaga cctggtctgt aaatagcaa actgtaggtc     1560
caaatctcaa ttttttagaa ttttaagtta tgaagtgctc aaaggtactg acacagttga     1620
ttttattcac accattaggg gtatgcaaga tgtccctgtt ttataaacat aatcacaaca     1680
gtaataaacc tcaagtagtg gctagtgttt agtatagaaa tataagatgt tgatttagta     1740
aactgataaa aaccgaattc ttgtcttttt agtgggatcc ttactggccc tggaaagata     1800
tagcatagtg gttctcagca cagtctccag aacagaagca tctgtagtac ctggtaactt     1860
gttagaaatg tacattctca ggctccacag caggccgcct gaatcaaatc ctgggaggtg     1920
gggacagaaa tctgtgtttt aagaagcctt ccaggtaatt ctgctgcaca ctcaagttca     1980
ggaaccaccg gtatagacca ttaccttagt ggatttacct gtagagttta ttggatcctg     2040
```

.1985

```
aaaccaatca attacttaga actaggcaaa gatgaaagta tagccaacta ttcttggcta    2100
tatatatata ttcaagtggg ccgggcgtga tggctcacac ctgtaattcc agcactttgg    2160
gaggtcgagg taggcagatc accgagccca agagttcaag acaatcctgg ccaacggcga    2220
aactctgtct ctacaaaaaa tatacaggcg tgttagcatg tgcctgtaat cccagcttct    2280
tgggaagctg aggcacaaga attgcctgaa cccaggaggt ggaggttgca gtgagctggg    2340
atcgcgccat tgcactccag cctggctgac agagcgagac tgtctctaa               2389
```

```
        <400> 3214
tgcggtggaa ttctcagccc atggtgcccc tggctgtgga gaaccaggct gggggtgagg     60
gtgcaggcgg ggagctgggc atctccctca acatgtgcct ccttggggcc ctggttctgc    120
ttggcctggg ggtcctcctc ttctcaggtg gcctctcaga gtctgagact gggcccatgg    180
aggaagtgga gcggcaggtc ctcccagacc ccgaggtgct ggaagctgtg ggggacaggc    240
aggatgggct aagggaacag ctgcaggccc cagtgcctcc tgacagtgtc cccagcctgc    300
aaaacatggg tcttctgctg acaagctgg ccaaggagaa ccaggacatc cggctgctgc    360
aggcccagct gcaggcccaa aaggaagagc ttcagagcct gatgcaccag cccaaagggc    420
tagaggagga gaatgcccag ctccgggggg ctctgcagca gggcgaagcc ttccagcggg    480
ctctggagtc agagctgcag cagctgcggg cccggctcca ggggctggag gccgactgtg    540
tccggggccc agatggggtg tgcctcagtg gggatagagg cccacagggt gacaaggcca    600
tcagggagca aggccccagg gagcaggagc cagaactcag cttcctgaag cagaaggaac    660
agctggaggc tgaggcacag gcattaaggc aagagttaga gaggcagcga cggctgctgg    720
ggtctgtaca gcaggatctg gagaggagct tgcaggatgc cagccgcggg gacccagctc    780
atgctggctt ggctgagctg ggccacagat tggcccagaa actgcagggc ctggagaact    840
ggggccagga ccctgggggtc tctgccaatg cctcaaaggc ctggcaccag aagtcccact    900
tccagaattc tagggagtgg agtggaaagg aaaagtggtg ggatgggcag agagaccgga    960
aggctgagca ctggaaacat aagaaggaag aatctggccg ggaaaggaag aagaactggg   1020
gaggtcagga ggacagggag ccagcaggaa ggtggaagga gggcaggcca agggtggagg   1080
agtcggggag caagaaggag ggcaagcgac agggcccgaa ggaacccca aggaaaagtg   1140
gtagcttcca ctcctctgga gaaaagcaga agcaacctcg gtggagggaa gggactaagg   1200
acagccatga ccccctgcca tcctgggcag agctgttgag gcccaagtac cgggcacccc   1260
agggctgctc aggtgtggac gagtgtgccc ggcaggaggg cctgactttc tttggcacag   1320
agctagcccc agtgcggcaa caggagctgg cctctctgct aagaacatac ttggcacggc   1380
tgccctgggc tgggcagctg accaaggagc taccccctctc acctgctttc tttggtgagg   1440
atggcatctt ccgtcatgac cgcctccgct tccgggattt tgtggatgcc ctggaggaca   1500
gcttggagga ggtggctgtg caacagacag gtgatgatga tgaagtagat gactttgagg   1560
acttcatctt cagccacttc tttggagaca aagcactgaa gaagaggtca gggaagaagg   1620
acaagcactc acagagccca agagctgcgg ggcccaggga ggggcacagc catagccacc   1680
accaccacca ccggggctga caccctgccc cacagggaat ggccttggcc tggcccagcc   1740
caagatccca gcgttatcta actcctggag ggtggactct gtcctggctt gtttggtgtc   1800
ctcagatatc tttcacacag tagagcaaaa tcaccagccc tgcactgatg tcactttatg   1860
```

```
tagaaaaagg ccttagctgg acctgcgttg ccgtctatgc aaatgcatgc aaatactcca    1920
ggccctggga tgtgggcttg tgttttgtca ctgtgaaggg ggagatggga gaggagcctg    1980
ttttggggtg gggtctgggg aaggcaatct gattctgaag ctaaagagct ttcatcctct    2040
tgagtgtatg tccccatagt gggccccttg acccacatgc tgaccggtgc cttgggattt    2100
gactagagtt gctggctcga ggcccagcac gaggacttac cctggggttt tgttaggttt    2160
ggaagcagct gtccctaggg ggtgaagtcc cccccctttt ttttttacc cctgcttctc    2220
ccacgggctt cacctcccta tgtgaactgt agactcaaat cccaataaag tgctgttgca    2280
gctatgatgc taggtggttt ctaagcacag gggacacccc acaccccctg cctgaatgga    2340
tgggtccatc ccaggcactg gtacttgccc ccttgttctg tatccccctt tgcccttgcc    2400
ttgcccttcc aacaaaccct aggcccttga gaagctgata cttctccttt tgctcacagc    2460
tgccttggcc ccacccctgg gagatgtagc aaattgagtg tgggtttttgg agtctgagcc    2520
tcaggctcaa atccaggcca agtgatcttg ggcaagttaa tctctgggaa ctttgggttt    2580
cttatcctca aaaaaggcga tggaagggct ggggaagtga ttaaataaaa gcaacgcaag    2640
aaaaaaaaaa                                                           2650
```

```
        <400> 3215
gcggccgcca ctgccacctc ctcggaggac acgctggggc tcggcggtga agagtctgtt      60
tccggggccg cctctccctg gggtgccccc gaagcctgcc tgagggcctg ggggccattt     120
cctgcatccc ggggacccgt catcactctc acatggtggt caggacacag gacaaagaag     180
ggcccttctt ggatgaggag gctctcgtgg gtcagcctta aggcgttctc atccacatgg     240
acttggatgg ccgtctcctc ctcctcactg ggcaagagca gccagaaggc ctggtccatg     300
agcaggtttg ccaggcagtg atgagtgaag ccgagagcat ggtaggtgga aaacttccag     360
atttcttcaa aagtcttaaa cgtcaccacg atccggtcct ggtcactgtg gatggacagc     420
agcctggctg ataattcccc aagcacgcgg gccatctccc ggctatcatt ctccagcagg     480
cggagctggc cccggagggt ctgctgtagg ccggggtccc gcagtctgct cttcctccgc     540
acagccagca gctgcagggt caggtctgtg ggataaaccc ccatctggca gggaggggtc     600
ccagcagcag gcccagccac gcgggcagga ggagcctcgt cgcctctcac tggcgccttg     660
gcctcctcgg gccccgcttt ctcccagctc acagagggcc tcatgaccac agtccggacc     720
tggtcccggg tgctgccacc tcctgagggt cccacaggac ccctccccat gggggtcggc     780
tcctcagtgg tcacggcagg gaggttctcc atgacccgca gagacctcac atgcctggcc     840
ctgcggcgtg ttcctcag                                                   858
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(484)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (33)...(483)
<223> similar to gi4680665 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3216
ggtcgaccca cgcgtccgcg gacgcgtggg ctgtcacaag aggcgttgag atcactgtga   60
attatctggg aatccagtgt gatgtgaaat tttggtccca acacatttcc tccattcttg   120
ttggaataat catcgccaca tccatcagag gattgctcat accacgttct tttatgccat   180
ctctagcagt aagtcctcca gtgtcaatgt cctgctatta gcacagataa tgggcatgta   240
ctttgtctcc tctgcgcttc taatctgaat gagtatgcct ctagaatatg caccataatt   300
accgaagtcc ttggagaact gcagttcaat ttctgttacc attggtttga tgtgatcttc   360
ctggtcagca gtctctctag catagtgttt ctctatttgg ctcacntaca ggcaccagag   420
aagcatatga caccttgaac ttanggctac tacagactgg tagaggccag tggtctcaaa   480
ttt   483

<210> 3217
<211> 656
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(93)
<223> similar to gi2072950 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3217
tttaaaaaat caaacaaatt ttagtacaaa aaatgcagta actaaaagag ctcaatgtgt   60
agatcaagta gcagattaga tggtgctgaa taaataatta atgaactgaa acgtcagaaa   120
acaatgcata ctgaagctca gagagataaa cagatggaaa atacagaaaa gagcataaga   180
gacttatggg ataggtaag taggcctaac atgcttctac ttgaagtctc agaagaagag   240
aacaaagaga atgggataga agcaatattt gaagagataa tggctgtgaa tttccctaaa   300
ctataaaaga cttcaagcca cagactgaag cattatgagc cccaaacagg agaaatacaa   360
agaaatacaa aacagctaga ggtaaaaaag acgtattatc ttcagtggag caacagcatg   420
gttgacagct gacttctgaa caaaagcaat ggaaagcaga tgacagtgga atgaaagtgt   480
agaaaggaat acccttcaaa aatgaaggtg aactaaagat gttttcagac aagaaaaata   540
tgagaaaata tatcgccagc agacttgcac taaaagaaat actaaatggc attatttagg   600
cagaaggaaa atgatcccaa atagaatctt agaaatgcag taaagaatga ggagca   656

1988

<210> 3218
<211> 951
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (19)...(541)
<223> similar to gi829151 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3218
cataaattca ctgacggtgg agaaaccttc ctcaaggagt catacctcct tatacatgag   60
cgaactcata caagagcaaa agactgtgaa cacagtacct atagaaatgc cttcctcagg   120
aaccccgcca ttgttaaaca agagtgagcg cctagtgggc agaaatgtag tgattgtgga   180
acaacctttt ccaagaaatc aagcctttgt agttaatcag gaatttgaac agagaataag   240
cctcacaaat gaagtgaatg tggccccatc agtaataaat tatatcttgt atcttacaga   300
tattgtatca gaataaatct tctgatacca gaaaggtggg aaaatcttta gtaggaatcc   360
tccagccatt atatcccaga gagctcattt agggctgaaa cactgtggag gcagtggttg   420
tggaggacat ttctgtgaga agtcaaacct gttaaacacc attgaaatca tgttgggtag   480
aaatgcagct gttatgagga agtctttacc tggagatgat atctcaattg gtatcaaaag   540
aattcttaca ggaatattta tgaaagattg tgatggtgct tttagcgcta aattgtgcct   600
cgtgtgccaa agaaacatag acaactgtag aggcaatgga tatggaaaac atttttcgta   660
aaatatggga gaatttatag aaaagaaaaa ctcttgaaag taagaaatga tggcaactca   720
ccaaattaac tcatgtatca tacttttatg tcttgagagt cttggaggga cgtgtttaat   780
gaaatcttga accccaggaa tagtattatg taatgaaaac ctatgaatat aacaaatatg   840
gaagtaaaat tgtgttagtt tcttatgagt gttgcaccaa actaacacaa atttaatggc   900
ttaaaacaac acaaaatcat tatcttacag ttctggagga ctgaagtcca a   951

<210> 3219
<211> 934
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> similar to gi2854198 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 3219
gcagacgcca gtggctttgg ctctgcagcg ccaaggaggc ggcgtggcgt catgctccgg   60

1989

```
ggagcgcaca ggtttccttc cagtcgaaca attaacttca gatccagcag gtttgaccca    120
ccctcacctg ctgggacatg cgagtgctgg tgtctggaag gagggccggg ctgtgctgag    180
ctctgggggg ccggtcccca cagctccccc gacagggccc ccggggcctc ctctataaat    240
caggggtccg tgctcccagc ctgcttcgag gggtttctgc ttggcgtgtg ggttctaagt    300
gcgagctgct gtgtgtggag gctcctgagc accgggtgcc cctcgcgcgt gtgggtcccg    360
gggcagccca gctgcacaca ggatggtccg ggggtgcggg tgggggcaga gctgagcatg    420
gcgtgtactt ggccacagaa gtcttgctgt ggtgccgctg gacccctgct aggaggacag    480
ggtcccctct ctcacgaagc acacggacct ccagagtccc tgccctgca gtcctgggag    540
cctgcagttg gggctggagt tggcctctcg gagccaccca aacggagagg cccatgagag    600
gggagctcag gggtccagca gaggctgaca gagtggcctc tttgtcctgt tggcggcccc    660
tgctcatgcc tggggcgtcc tccctggagc tgggggagct cagggacccc caggtctgtg    720
tggctgcccc tgccactcca ggcacagcgg cacggccctc actctttacc tatttggaat    780
tggaggcaat gagtggcaag aacatgatga cagacacggg aggtaaaaat atgttcactg    840
gctgttccct ttataaataa gaagtggtgg gacttgcgct gctattttta aatagaccag    900
agagtacact ggagaaggca ttgagtggtt ttat                                934
```

<210> 3220
<211> 824
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (821)...(176)
<223> similar to gi53797 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 3220
```
accaagcttg gcacgaggga ggcaggagaa tcgcttgaac ccaggggggtt taagttgcat     60
tgagccgaga tcgtgccact acactccagc ctgggtgaca gagtgagact ccatcttaaa    120
aatataaaaa taaagtggtg gtcagaggag ccccgaatag accagttgtg gagaggcctg    180
ggtggggtgg ctggcaggga gggcaggcca agcccagttt ctgcccacag tcacctcgag    240
gtgactgtcc agggctttgg gcaccttccc gggaggggga cggccgccca ccctgagtgg    300
tgttggaagc tgggctctcc tggatgccct gacccagctg cctggggaga gccctgggcc    360
cctcctccct cagcacctcc tccctcagcc cctcctgcct cggtccctcc tcccttagcc    420
tgtctggcat agatccatgt tccctagccc ctggcacagg tgcctctgac tggaggaggc    480
cccacctgtg gcccgggagc tgctctgggg gttgataaag ggcagcatta ttgggtcctg    540
ggaaggagcg ggcgtgaggc cagctgaggc atggtgaccc ctgggaagga gcgggcgtga    600
ggccagctga ggcatggtga cccctgggaa ggagcgggcg tgaggccagc tgaggcatgg    660
tgacccctgg gaaggagcgg gcgtgaggcc agctgaggca tggtgacccc tgggaaggag    720
cgggcgtgag gccagctgag gcatggtgac ccctgggtac ggggggacttg ggggccgcac    780
cttggtttgc ccagggcccc tcctgcacca cgggccacat gcgg                     824
```

<210> 3221
<211> 1818
<212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1796)...(115)
<223> similar to gi4972748 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 3221
gcggctctac ttcctttatt gaggtctcaa gttccagcct ccgcccgtct cgggacaaga      60
ccaggcgggg ttctgcacgc ggccgcccgg gcaagcccag cagatgcccc gtcaggagta     120
ctcgcagagg tgggccgcag cctgcgggaa cagtgggaag ctgccttcca gccacttcat     180
gatgtgctgc aggtggccgc cgtggctgca gccctggcac cacacgaaga gacccttgac     240
tacgtggtgg cagacggcac acatgctggc gcacgtgtgg ccacctgtcg cagaacccag     300
ccccggctgc tcatgggccg cttgcagtgg ctgcagttga cgtgcagggt ggtggaggcc     360
tggttgaggc agctgacggc gcggctggtg ctcagcttga ccacctcgtt ggacacgttc     420
cagaggcgga agcgctgcag caggtcgatg taggaagtgt accagtgctc ctgggtctgc     480
tcgtcgatgt ccttgcgcac ccgttcaccc aggacgatga gcacagacac agccatctgc     540
acgtcgccct gctcagcgta gaagtgcagc atgtcgcgca ccagcacgcc gaagaagtcg     600
ggcggcaggc ggctgtcgta gagcgcgtgt gagacagaca ggagcgagaa ggaggagtcc     660
acggggcca gggaggccac atccgcctcg ctgccgctca cgtgcgggga gtcggccttg      720
tcctgcaggt gctcgggccc gggaggcgtg tccacgatct cgtggcgcag cggaaaggcc     780
tcctgcggca gcacgcactc agggtcctcg gggtgcgcgt gttccggatc cagcaggtac     840
agctcgtcct cctcaccttc cacgtcaccc agcaggtagt cggcaggtac gtcgctgccc     900
tcggtttcct cgttatcctc attggtgatg agtgtggccg aggagtcgag cagaactgtg     960
tcgctccgcg catctccttt gctgcggtcc agccgcgtct cactgcccaa ccctggggcc    1020
atatccttca ggttgaaact gttcatgagc gggaggccac aggagccacc cttgcccaca    1080
ctgtggttga ggtttgcagt gggcactagg ccagggctgc agtagatgat ccgcagcatg    1140
gtccacgttt gcgccacctg gttgcggcca agctctcgag ccacctttgc gttgtggtca    1200
cagagctcgg ccagtggccg gccagccagc gcataacgct cagctgtgtc cacaaaccag    1260
cgcatgccgc cgccacctgg ctccgtctca aagacactga gggcactgga ggcgaggcct    1320
gcgaagggct cggcagggtc cagcttgcgc ttaaagaaga tggggtggcg ccggtcgcca    1380
gtgtagggct tgcgccccga ctcggcagcc acgaggctct ccttggcggc gaaggccagg    1440
tccccgaaga ggccgtagca gaggccctca gggttggcgc gctcgacggg ttggctggcg    1500
tcgcggaaca ggtgctggca cagcgagctg tccttggagc cagacagcag gaaggagggg    1560
tcgtgggggt ggcgccaggc aattcccgtg gtgacgtctc ggtgttcctc aaacatggca    1620
gctggcacga agggccggcg cacgtcccaa acatagatgt tgtggtcccc catcatggag    1680
cacgtggcca ggtggtggcg gcactctggc cgccacttca cacgggccac cgaggcgatg    1740
gtctgcacac agtgcatctc cttggcacgg tgcgtggtca tgtcccagac ctcctcgtgc    1800
caagcttggc tgaatgtc                                                  1818


<210> 3222
<211> 2170
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2137)...(1281)
<223> similar to gi3695113 in the genepept database release 114,


1991

Run with FASTXY 3.3t00, default parameters


<400> 3222
ctgtaatttt cttccagagc cagcaattct ggcaacacta cactttcgat ttatagcaaa     60
gcacacaagt agcagtgtct ttgaaaagaa aggataaaag aatcaatgaa aaagttacta    120
gttcttaaag atctgtgtct cattcgagga acttaaggac ctctccctca atctaaaagc    180
agaatgcact cttgctgctt actcccagca tgccctcagc tgttcctatt tactcctgga    240
ggaaggcaat gatatttgag tctgggttat caacaatcct ttaatttttt atttttattt    300
ttttccctgg gatttcgaac caatatactc ctagcctgaa caacatagaa catttccttt    360
ccattttggt agaaattatt ttttaatgta aattatattg tgttctattt gtttccaatg    420
tcttgaaaag ttcaatcact tctccaaatt ctccgaataa acataagaaa atatctctcc    480
ccagcactac ccggtccccc agtatcacca tcctaaaggc acttccactt cctctatcat    540
cagggaagga gtgtgcagtt ctgatttagc tcctcagtgg agtaaaggga atttagagga    600
agggggattt ctgcagaaat tgtcagttac acaagtaagt tcctcttggt tccccgtttc    660
atcaaaagtg aaaaactgtt cacaggagtg cccatgtccc ctgtttccct atgcatcact    720
agagccaaga ggggactccg ccagcaaggc accctctgct ctgtcccgca gatcacagtc    780
cccgactttc accccattgt ttgtgcaatg tgcagaactg gagcccaaag cagcgggctc    840
aggatcactc tccaggcccg gcgggcccat agactccttc cttggctggg aagaggggct    900
ttcgtgaaag cagagcttga caagccccag tactgtcatg gtcaagatca ccaacactac    960
tactgctgtg ctcacaaata tgaagaccac ggcagaggag gagtcgaaag cctgaggagt   1020
ggcagaggaa gtcgtagaat taaacttgga aatcacgctc cctgatgggg tgatagtggc   1080
ctttgactcg gcttgaaggg acatttgaag ggtagacatc gtgctctgtg atccccatcg   1140
aggaatctca ggaatagatg ttactgaatt gtcttgttca gggacaagtg gtgtctctcc   1200
cagcttctcg tcgaccctga ttggccatgt tctctgcggc acggggctgg ttgcagtggc   1260
cggcgggcgc ctggtgggca ccccggtccc cccaagggtc ggctgtcctt ccccactggt   1320
cacacaagaa gcggaccgtc cttccccagc tcgaagcccg tagcacattc gcaggcaaag   1380
cctcccaagt cgtctaggca gttagggagc tctgcgcatt tgccagcacg gaggtacctc   1440
ccggggcagg gacacaacac atcgcccgag agtttgtccc agcgagcgcc gatttcgtcc   1500
gcgatgcaag taactgagat cgggagctgt ccccggcaga gcgcactcac ctcggtccca   1560
ggtggactga agtccagagc ggcgctgtgc agctggaagg gcgcgcgata gctcaagtta   1620
gaggcggccc cggggcgcgg cgcaggacac aagacctcaa actggtactt gcacaggtag   1680
ccgttggcgc gcaggtggca tcgcatctcc ttccagcctg cgggctcgac cccaccggtg   1740
gcctggagta ccgcgcatct ccgcgcggtg caggagcgtt ggggctcctc cacccactgc   1800
agcgtgtcgc tttcgagacc gccggggtcg gaggacagcc aggagaaacc ccgcaaaggc   1860
tcgttctcca gggtgcagtg ggaacgcctg cgctccagtg cgacccagaa cagcaggtct   1920
ttggagcccc ctccgggccc tgggcctgcc cgcaggagcg cgagcacagc gcgcagctcg   1980
gcgcccgcac gcacggtgtt gagcgcccca cctcgcagga tgcaggcctc ctcggccgcc   2040
tgccgcttca tggtagcgtg gtgcagcctg tagcaggccc ccgaggccgt gcagccagca   2100
aggtcggatg tggggtgttg ccgccgcccc ggcccgggcc agagcgcctg cccctcatgc   2160
caagctgagc                                                         2170


<210> 3223
<211> 1836
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)...(758)
<223> similar to gi2429362 in the genepept database release 114,


1992

Run with FASTXY 3.3t00, default parameters


```
<400> 3223
ctgccccatt ccctggcctg gtttcctaac ctcttcttcc tcccctgccc tgcttccctt     60
cctccaccac cctgctctca aaggcctcct ctccagaccc ctggaaggga ggcttcccca    120
tctttagttt tccactctgc cccggggggc acccttctac tcctagccac gtcccttggg    180
accggtggga ctggaggagg aacggtcacc ctcctccccc atggaggttt ccaggggtcc    240
cccagacatg aaagaggggt gagctggagg aagtcatggt gtcactgggg tacaggggg     300
tgaatgaagg gcatgcaggc cctcagcccg ggctgtgcca gccctcccag ccccaggccc    360
atctgaggga ccaagacgct gttacgcagg ccttctttc cagctatcag cactttcagc    420
atcggctctt cagcagatcc aaacccctc agcaacttgc agaggacctg tccctctca    480
aaagtccct ggcctaggt ggggaccccc aaacctacgg caaagccagc aacagtagca    540
gcctgctccc atttgctggg gaggagatca tcttgttccc ctggcccccc actctccctc    600
catgtccatc caaaaaccat aaaatcactg ggttccacat cagcctccat gaggccaagc    660
cttgtacctg caaggctctt ggcctaacca ttcctctgtc ctcttctctg gcctgcctgg    720
ggagcccgtg aaggccgcac gggtgcctcc agcctgagac atcaggggag agcctgcagc    780
tgagttcagc agaaaggagg aatcctggcc ctcaggaaga agatagtcac atgttttct     840
tccttgtccc cacagccccc agaacaacat tctccctgct ggcagccctt ccatgtctcc    900
aaacctgggt cagagtgaaa ggacctttgg gggtgggtgg gagcaaaggg cccacctgct    960
ggttggtgaa agcagtggtg ccggagtgct aggtaccgca cgagagggtg cgggggcttg   1020
ggaagcagac cagggttgga caaaaccca tgagggcggg gagctggaag aaaagtctct   1080
tggggacctc tggggcaagg agctgagaag tcctgcagca ccaggtgaga cttgcttaca   1140
gtggatgcca cttctaggcc tctggaccgc agatgccctc ctccctcctg cacacctggc   1200
ctcctgggcc tccaggtaaa gagagagagc cagcccagcc ctgtttcccc tcagtcctcc   1260
tttgctcctg ctgcttctcc caacagccca ctgttaggag gtagtagacc ccagcctcaa   1320
ggctctgacc ttcttcatgt gggcacagag ggtcctgaca ctctggcagg gcctgagctg   1380
gggcaggcct ccctcagggc caggggcgat ggcaccccgg ggacaggcag acctccttcc   1440
tgccgtcagc acccccttcc ttatcactgt ctggtctccg agcttcggct gcagcctgag   1500
gtgtgtcctg ggctcctcag agcctgaagc aagcttttgg aagcctgcag tcctcccagc   1560
tccagtgcaa aagcctctct ctccagcctt tccccaggca ggagttgggg ttgggggcct   1620
ctgtccctca tcgcttacct tggaaaggtg ggaagctggc aatctgcacc ttggggcctg   1680
ggctcccccct ctctgtgcca gcggcttccc agcacctggg aggggctgca gccccagctg   1740
gactccagcc tgtccctctt agcactctag ctgccccact ccagggcagg gactcgaaac   1800
cccctccgtc ctgagcagcc acctccaggg ccctgt                             1836
```


```
<210> 3224
<211> 1771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1770)...(545)
<223> similar to gi488555 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 3224
```

```
taatcacaaa aaaattttat tatgtttgaa gaaagcttaa aaatttgtgt tggtctgcat      60
tcaaagccat cctggcctgc gggttggaca agcttgatct aaagcttttc ccaagttcct     120
cacagtatta gtttcctagg gttgctgtac aaaataacag actgaatgat ttaaccaaga     180
gaaatttatt gcctcacagt tctggagcct ggaagtgcaa tatcaaggtg gagacagggt     240
tggtttcctc tggaggccat aatgaaagca tctgttccag gtctctgtcc ttggcttgta     300
gatggccatc ttctggtgga tccacacagt cttctccatg tgtatccttc cttcagtttc     360
ccttataggg acaccagtga tgtcagatta gggatcgaac ccaacaacct catttgaagt     420
tactcacctg tttgaaaacc ctatgtccaa atacagttat agtgtaagga actaggactt     480
agggcttaca aatatggagt ggggcatcat ccagaccata ccatttaaat tgcagggttt     540
ctctccaatg tgagttcaca tacacacatt aaggtttgtg ggattcagaa aggtattccc     600
agattctcta cattcatacg gtttctctcc agtgagattt ctgatgtgtt tggtaaggct     660
tgagaattca gcaaagtcat ttccacattc cctgatgcag ggtcttctcc actgtgaatt     720
catatgtgtt cattaagacc tgagatacaa agttgcttcc acatttttac attcataggg     780
tttctcccca gtgagttttc atgtcttcag agagaacagg gacacctta ggttttccca      840
cattccttat gctgacagtc tctcatccgc atgccttctt tcatgatttc gaaaggaact     900
ggaagaactg aaggctttcc cgcactcctt acattcatag ggtttctctc cagtgtgagt     960
tcgttcatgt aactgaaacg aattggagta actgaaggat ttcccacact gtttacattt    1020
gtagggtttt tctccagtgt ggatccgcat gtgaaggtta acacacgtgg gaaacttaaa    1080
ggctttgcca cattccatac acgtgaatgg tttttggcg ctgtgggtcc gcatgtgatt     1140
attaagactg gaggaatgcg taaatgcttt accacattcc aggcactcaa agggcttctc    1200
tccagtgtga attctcaaat gtccactaag atttgaagaa atagcaaagg ctttcccaca    1260
tttgacacat tcaaaaggct tctctccagt gtgagttctt gtatgttcac taaggcgaga    1320
ggatctggca aaggccttc cacattcctt acattcatag ggcctctctc cactgtgagt     1380
tcgtgcatgc ttagtaaggt ctgagttctg agtgaaggct ttcccacaat ccttacattt    1440
atagggtttt attccagtgt gaattcgaaa gtgatcactg aggcatgagg aatttctaaa    1500
ggattttcca catatcttac attcaaaggg atcctttgca gtgtgagttt ttaaatgttc    1560
agtaagttga gaagatctag tgaaggctat cccacattcc ttgcattcat aaggcttctc    1620
acccacatgg attttcatat gttgacttaa gcaagaggaa acagtgaagg ctctcccaca    1680
atccttacat ttataaggtt tctctccagt gtgagttttt ctgtgctgag taagttgaca    1740
agacctggtg aaggctttcc cacactcctt a                                    1771
```

```
actactatgt tatttattta tttatttatt tagcggcagg gtcccgctcc gtcacctagg      60
ctagagtgca gtgatgagat cacggctcac tgcagcctca acctcccagg ctgaagcaat     120
cctcccactt cagtctccct agtagctggc actacaggca tgtgccacca aaccaggcta     180
atttttctttt ttttatttt gtagagaagg ggtcttgctc tgttgttggt caggctggtc     240
tcaaactccc aacctcaggt gattcgcccg cctcggcctc ccaaagtgct gggattacag     300
gcgtgagcca cttatgcccg gccggatttg cccttattaa tggttatttc ttgtgaaaga     360
ttctttttgc ctttgcattc cttttattct gtttattccc ccatgcctca cccaaagagt     420
```

```
tgcacggtca attggcccgt gaaggggacg cctactttca aacaaggcag acaggacacg    480
acaggacggc ggctcatagc acagactttg gattgcagtg gatgggacca gatcctggct    540
ccacttctcg ctagctgtgt ggccctgggc aagctgctta acctctctgg cctcagttt     600
ctcccccctgt aaactggggg atgtgaacag cgcctgcctc cgagtcctaa ggattgggag    660
tagtcgtgta aagtgctcag gtccacaggc catcaatact aatagttaaa aattattctt    720
agaatcttgc ttccctcagc tccctgaaag gccactaagg cacccagtt gcagaggcca     780
aaggtccggg aggcttcaca gccacggctg tgccccaggg tcttggcccc ggcccacctg    840
catgtaggtg atgggctcca gctgggcggc ccggagcttc cgcagctgct ccttgtcctt    900
cctcaggtct gtcttgcagc cgatgagcac catggggatc ccgcggcaga aatgcgtgac    960
ctcagggaac cactgtggag ggaggaggcg ggatcagggg cgcggccggg cccagatgtg   1020
gggccaccac ccaggaggcc ggcctcacct tgatgaggac gttgtcgtag ctggtgggat   1080
tc                                                                 1082
```

<210> 3226
<211> 2401
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (48)...(1135)
<223> similar to gi3184062 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 3226
```
agttaatctc tttggctggg cctacagatg acatacagag tacaggcccc caggttcatg     60
ctttaaatat ccttagagca ttgttcagag atacgcgcct gggagaaaat attattcctt    120
atgttgctga tggagctaag gctgcaattc tgggttttac atcaccggtc tgggcagtgc    180
gaaattcatc cacacttctc tttagtgcct tgatcacaag aattttggga gttaaaaggg    240
caaaggatga acattccaaa acaaatagaa tgacagggag agagttttc tctcgttcc     300
cagaactcta tccttttctt ctcaaacagt tggaaactgt agccaataca gtagacagtg    360
atatgggaga accaaatcgt catccaagca tgtttctctt acttttggtg ttggagagac    420
tctacgcttc cccgatggat ggtacttctt ctgctctcag catgggacct tttgttccct    480
tcattatgag gtgtggtcac tcacctgtct accactcccg tgaaatggca gctcgtgcct    540
tggtcccatt tgttatgata gatcacattc ctaataccat tcgaactctg ttgtccacac    600
tccccagctg cactgaccag tgtttccggc aaaaccacat tcatggaca cttctccagg    660
ttttttcattt ggtgcaagcc tactcagact ccaaacacgg aacgaattca gacttccagc    720
acgagctgac tgacatcact gtttgtacca aagccaaact ctggctggcc aagaggcaaa    780
atccatgttt ggtgaccaga gctgtatata ttgatattct cttcctattg acttgctgcc    840
tcaacagatc tgcaaaggac aaccagccag ttctggagag tcttggcttc tgggaggaag    900
tcagagggat tatctcagga tcagagctga taacgggatt cccttgggcc ttcaaggtgc    960
caggcctgcc ccagtacctc cagagcctca ccagactagc cattgctgca gtgtgggccg   1020
cggcagccaa gagtggagag cgggagacga atgtccccat ctctttctct cagctgttag   1080
aatctgcctt ccctgaagtg cgctcactaa cactggaagc cctcttggaa aagttcttag   1140
cagcagcctc tggacttgga gagaagggcg tgccaccctt gctgtgcaac atgggagaga   1200
agttcttatt gttggccatg aaggaaaatc acccagaatg cttctgcaag atactgaaaa   1260
ttctccactg catggaccct ggtgagtggc ttccccagac ggagcactgt gtccatctga   1320
ccccaaagga gttcttgatc tggacgatgg atattgcttc caatgaaaga tctgaaattc   1380
agagtgtagc tctgagactt gcttccaaag tcatttccca ccacatgcag acatgtgtgg   1440
agaacaggga attgatagct gctgagctga agcagtgggt tcagctggtc atcttgtcat   1500
```

```
gtgaagacca tcttcctaca gagtctaggc tggccgtcgt tgaagtcctc accagtacta      1560
caccactttt cctcaccaac ccccatccta ttcttgagtt gcaggataca cttgctctct      1620
ggaagtgtgt ccttaccctt ctgcagagtg aggagcaagc tgttagagat gcagccacgg      1680
aaaccgtgac aactgccatg tcacaagaaa atacctgcca gtcaacagag tttgccttct      1740
gccaggtgga tgcctccatc gctctggccc tggccctggc cgtcctgtgt gatctgctcc      1800
agcagtggga ccagttggcc cctggactgc ccatcctgct gggatggctg ttgggagaga      1860
gtgatgacct cgtggcctgt gtggagagca tgcatcaggt ggaagaagac tacctgtttg      1920
aaaaagcaga agtcaacttt tgggccgaga ccctgatctt tgtgaaatac ctctgcaagc      1980
acctcttctg tctcctctca aagtccggct ggcgtccccc aagccctgag atgctctgtc      2040
accttcaaag gatggtgtca gagcagtgcc cacctcctgt ctcagttctt cagagagctt      2100
ccaccagctg ctgagtttgt gaagacagtg gagttcacaa gactacgcat tcaagaggaa      2160
aggactttgg cttgcttgag gctgctggcc tttttggaag gaaaggaagg ggaagacacc      2220
ctagttctca gtgtttggga ctcttatgca gaatcgaggc agttaactct tccaagaaca      2280
gaagcggcat gttgaagaaa atctggggga ttgggatggg ggtatgtgtg gattttttcct      2340
ccactaaatc tgcaggaaac atgttgaaca taaattcaaa aattttatcc caaaaaaaaa      2400
a                                                                     2401
```

<210> 3227
<211> 1691
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)...(1178)
<223> similar to gi2661590 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters

<400> 3227
```
ccgttttgcc ggttcgaccc acgcgtccga taagtgggag ggctcccctc aggcagtttg        60
aaggctcata caaaagcagt tcatacagta gattttacag ctgacaaata tcacgtggtc       120
tctggggctg atgattatac agttaaatta tgggatattc caaactccaa agaaattttg       180
acatttaaag aacactctga ttatgtgagg ggtggatgtg ctagcaaact taatccggat       240
ctctttataa caggatcata tgatcatact gtgaagatgt ttgatgcacg aacgagtgag       300
agtgttctct ccgttgagca tgggcagcca gtggagagtg tcctactttt cccctctgga       360
ggtcttctgg tgtcagcagg aggtcgttat gttaaagtct gggacatgtt aaaaggagga       420
caattgttag tatctttgaa aaatcatcac aaaaccgtga catgtttatg tctaagcagc       480
tctggacaga ggttactctc tggctcactg gataggaagg tgaaagtata cagcacaact       540
tcctacaaag tagtccacag ttttgattat gcagcttcaa ttttgagtct tgcccttgca       600
catgaagatg agacaatagt tgtaggaatg accaatggaa tactgagtgt taaacatcgg       660
aaatctgaag caaagaagga atcacttccc agaagaagaa ggcctgcata tcgaaccttt       720
attaaaggaa aaaattacat gaagcaacgg gatgacattt tgattaacag gccagcaaag       780
aagcacctag aattgtatga cagggatctg aaacattttc ggatctctaa ggcactcgat       840
agagttcttg atcccacttg tacaataaag acacccgaga ttacggtgtc catcataaag       900
gagttaaatc gaagaggagt ccttgcaaat gcgcttgcag gtcgggatga gaaggaaatc       960
agtcatgttc ttaatttttg ataaggaatc tttctcagcc aagatttgcc cctgttttaa      1020
tcaatgctgc tgaaataatt attgatatat atctgcctgt aattggtcag tcccctgtag      1080
ttgataaaaa gttttacta cttcaaggac ttgtagaaaa agagattgat taccaaagag      1140
aattgttaga aaccttgggg atgatggata tgcttttgc caccatgaga aggaaggaag      1200
gcacttctgt gttggaacac acatctgatg gattccaga gaataagaag atagaatcat      1260
```

```
agtgtctgct aaataagaca tataagaact cttgaagttg gaatagattt gactgtatta    1320
aatgttggcg agagactctc ctttgataca ttaaaaaaac tgtttgcaga agcagttctg    1380
tggaagagac tggaataatt atggccgcaa accaagtacc cgttttaagt aagacatggt    1440
tttccatgta atattttgaa ttacagcatc ttcacctaga agatctcaat tgtcttagtc    1500
acagagtagg tttatctggg atggatatta attttaatac aggagtgttc tgtatcaaca    1560
tttgggttgg tattcagatg ggaattcaaa tatgaatcct ctctggagag ggtccaactg    1620
ggaatcctgc taaaggagca aagccttgta ttacctctgg aagacaacaa aaacaattgg    1680
caacaacaaa a                                                         1691


            <210> 3228
            <211> 1835
            <212> DNA
            <213> Homo sapiens

            <220>
            <221> misc_feature
            <222> (2)...(1348)
            <223> similar to gi488555 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters



            <400> 3228
accttatgaa tgcaatgaat gtggtaggtc ctttattcag agtgcacatc ttactcaaca      60
tcaaagaatg tatacaggag aaaaactcta tgaatgtaat gaatgtgaga aagccttcca     120
tgatcactca gctcttattc aacatcatat tgtccatact gcagagaaac cctatgaata     180
tcatgactag gaaaactttc agttactgtt cagacctcat tcaacatcag agaatgcaca     240
ctggagagaa accatacaaa tgcaatgaat gtgggaatgc ctttagtgat tgttcatccc     300
ttattcagca tcaaagaact cacactggag aagagcctta tgaatgtaat gaatgtgaga     360
aagccttcca tgatcactca gctcttattc aacatcatat tgtccatact gcagagaaac     420
cctatgaata tcatgactgg gaaaactttc agttactgtt cagacctcat tcaacatcag     480
agaatgcaca ctggagagaa accatacaaa tgcaatgaat gtgggaatgc ctttagtgat     540
tgttcatccc ttattcagca tcaaagaact cacaccggag aagagcctta tgaatgtaag     600
caatgtggaa aagcctttag cagaagcaca taccttactc aacatcagag aagtcacgca     660
ggagagaaac agtataaatg caatgaatgt gagaaaactt tcagcctgag ttcattcctt     720
acacagcaca tgagggttca gactggagaa aaaccctaca aatataatga atatggaaaa     780
gcttttagtg actgctcagg acattttcag agaactcaca ctggagagaa gccctgtgaa     840
tgtaatgact gtgggaaacc tttcagtttc tgttcagccc taattcaaca taagagaatt     900
cataccagaa agaagccctg actgtacctt cataccagta aatgcactga ctgtggaaaa     960
gccttcagtg attggttagc acttgttcaa catcagataa ctcaacactg gagaaaaacc    1020
gtataaatgt actgaatgtg gaaaagcctt cagttggagt acagacctca aaaatcacca    1080
gaaaactcat actagtgaaa aatcctataa atgtaatgaa tgtagaaagg cctttagtta    1140
ctgctctggt cttattcaat gtcaggtcat tcatactata gaaaaacctt atgaatacgg    1200
taaatgtggc aaagccttta ggcagaggac agaccttaaa aaacatcaga aaatgcatac    1260
cgaagagaaa ccctatgaat gtaatgaatg tgggaaagcc tttagccaga gcacatatct    1320
tacaaaacac caaaaaattc atagtgaaga gaaatcaaat atacatactg agtgtggga    1380
aaccattaga caaaactctt cttttacaa caataaaacc tcacactgga gagttctctg    1440
aatgccttaa gaatttggtt aatatggaga cccttcccag ggaaacagaa ggaggatcgt    1500
gaaaaccgtt gactacttag aatgatcaca tggtttagtg gagagagcat gattctgggt    1560
tttaaaagtc atggatctca atctcagctc ctattactaa ctagatcttt tactttgggg    1620
taagtcactt catatctta ggccttaatt tcctcatctg aaaaactgga aggcctgact    1680
tgacttgttg agcttaagat cctcaattat tatatttact aggaattcaa gtttctatag    1740
```

1997

```
atgtggttca gaattgtgac ttatttattg tacatcaggt gtgattcaca agtgagcttg    1800
tagtagttat taaggagtca ataaagatat gatat                               1835
```

```
      <400> 3229
aaattttcgg gtcgacggga ggcaggaggt gaggaacaag caggctgtat aacaaacagc      60
tacacaggca ggggaagttt taactaagac aaagacgatg ggggtattgg agctgagata     120
aataaacagc taactggcat atttcacttt tggttcttta ccatccatat gcactctcct     180
acacacatag gaatttcttt ggaataatta aacaagtcta tattcctacc taagaagata     240
tgagggaaga agtcctcacc caccccaaa  ggagcagatg cgcagttcaa acagtccttt     300
gtattcccat ggcacgccat gtcaattact cctcaaattt agtcccattc taactattct     360
gtttcttaaa gacaaaatta taaatgtaac ctctaataat gtgtatataa aataaaagtg     420
ggaaaaagat agaagtaaat ggttcattta aataaataaa cacatggata taaacacaca     480
tacgtataac aagcagagag aaaacatgca aaactacatt tcttgtttct gtcactggtc     540
ttgaggttgt agttgatgtc catggtttac ttcttcagtg actaattcca tattttccct     600
gccctccact tgaacctcag ctgctccggg ttttgtacca gggaggagcg atccaaatct     660
tcgttcgccc agagtccgaa tcctctgttg tcctgctttc gttcagttgt ggttttccat     720
taacctttc tatggagtat agaagtactc ggaggttcta cacttcatca cttcatcctc      780
cttgcctcaa ttgtctagca gtgccacagt tttcctttga taattgggat taaccactcc     840
agccagtaga ttaactttt tcttttttttt ttttgccctt tggtttaggg ggaaatgaaa     900
cccaaaaggg ccaaggggga gtcccctgtt ccaatggatt aaaacacaaa gttgggcccc     960
ccgtggggag ggcttttccc cttggggnct taaaaaaaaa ctcccggacc cacagggcct    1020
ttgattggct ggaag                                                      1035
```

```
<400> 3230
gtgaggaagg ggtgctcatt ctacctgtat ctggtggctg agggtgctga ccacaggcga      60
ggagtagctg tgctgcgagg ggggcgtcag gaactgggct gcggtcacgg gtgggaccag     120
cgaggatggc agcgacgtgg gcagggcggg gctctcctgg ggcagaatag tgtgcaccgc     180
caggctgctg gggcccagtg gctgcacgtc tgcctggctc ggctctccac tcaggaagct     240
ccggcccagg tggccgctgg ctgctgagct cacgccaagg tgcggctgtg gtggtggtgg     300
tggcggctgc aggctttgct gctgctggat gtttgctggc tgcaggttct gctgctgcat     360
ctgtaagttt tgtggctgca cctgctgggt ctgcaccagg tgaggctggg tggccagccg     420
ggtgctgggc aggccctggt agctcatcat ctgggacagg gcgctggcag caaggctact     480
gtgcagcggg cctaccatgc catgctgcag ggaggggggcc tgtgtgctca gggggcctgg     540
tgccacactc ccccgcagag ggttgtattg gttcggcacc atgccgctct gcagccggga     600
cagccactcg cattgaccat tcaaactggt ggacccgccc acagtgaaat tcagggcccc     660
tccgctgctg gagcccagga cggtgctggt gccagaggcc acaggcaggt gggagagacg     720
aggtgggcca gtctcaaagg ccagccggcc gcccccaccc agcgccgcca tctcgggctt     780
ggccgccacg ttcaggtgcc cgatgcccag gtgggtgtcg ggcatcccag gcaggtggtt     840
gaggggcacg gacgagact gctggaacgg ggagggcagc agtggcggcg aggccacgtc     900
tgacaggtag ccatggggtg actccaggga gtccacgggc gagagcatgc cggagctgtc     960
cagcaggcag cccttgccat cctgggactt cttcctccgt gccttgaggt ccttggcctc    1020
cttgcttcca caggccaggc ctttgctgct gggcttgcgg accttcttgc cctgcacgcc    1080
gggcttgagg ctgcccaggt agccgttggg cgagcagagc gggggcgaca gggtgggcgt    1140
gccccccagc ggggctccgt gcagctgcgg gctgcgcacc aggttgtact cgtccagcag    1200
cctcacgatg tcgtgatgca tgcgctcctg tgcgatgtcg cgcggcaggc ggtccatatg    1260
atccgtgatg tcccggttgg caaagtggtc cagcagcacc ttggcggtct cgtagctgcc    1320
ctcccgggcg gccagaaaca ggggtgtctc ctccctgttg ttctgcatat ctttgttagc    1380
cccgttcttc aggagcacaa ctgcggcatc cacattgttc acggcggcgg cccagtgcag    1440
ggcggacttg cccaggtcat ctacggcgtt gacgtcggcg tgtgagttga tgaggtcctc    1500
cagcatgccc tccacggcca ggcgggcagc caggatcagt ggcgtcgtgc catcatgcat    1560
gcgggcatcc aggtctgtgg ctcggttccg gatcaggatc tggaagacac cttgtgcgtc    1620
ggcagacaca gccgcatgca gcggggtgcg gcccatgttg tcctggatgt tggcatctgc    1680
gctggcctcc agcaggcgct tggcggcatc agagcgtgag tagcgggcgg ccaggtgcaa    1740
ggcggtctcg cccgtgcggt ctgtctggtt gtgcaggctg gcgccctggt agatgaagtc    1800
ggagatgacg gccggcgcgt cctcctcttc ctcgctgttg cccgtctcca ggccgccccc    1860
gctgcaggag gcgatcatga gcggggtgaa gccatcaggc ccgcggacat tgacgtccaa    1920
tgcaatcggc gtcaaacctc aaccctgggg gcggtgtggg ggccatggca agaacatgcg    1980
caggtcagcg gcatcccagg tgctgctgaa gtccactgcc ggtggtctgt ctggtcgtcc    2040
aggtcaggca gaaccacggg ctcctcgaac cggaacttct tggtctccag gtcctcgtcc    2100
ccccactcat tctggttgtc gtccatgagg gcaccgtctg aagcgttctt cagcggcttg    2160
aggcccacgg gagtcctcgc cgaggggctc ccgccgcttc ttcttgctgg cctcagacac    2220
tttgaagccc tcagggaacc agagctggcc atgctgccgc cggcgcttgc gggacagcag    2280
caccccgcag cccacgaaga acagaagcac aaaggcggcc gccgccacgt acatgaagtg    2340
cagctgcgcc ggcggggggcg gctccacggt ctcactctgc acggcctcga tcttgtaggg    2400
gatgttgagg ctgcccagcg aggcgagcgc tcccaggaat gcggccacgt cggtggcact    2460
ctggaagcac tgcgaggagg cctgcacaca ctgccggttg tcaatctcca ggtagacgat    2520
ggagccgcgg acgtccatgg ggtccagctc cctccgccgc cgcccaccct cgctgccacc    2580
agggagcagc gaggccttca cctggcccag cagggcgtca ggtgcggccc agccctcggc    2640
```

```
ggcacgcttg atggggtgct tgcgcagctc ctcctcgcgg ccgtagtaag gggaagatca  2700
tctgctggcc gctgagcgtc acgctttgaa gaccacgttg gtgttgcagc acgcgggctt  2760
gaactcccgc aggaaagtgg aaaggagctg ttgcgcagct gctccggcgg catcagcacc  2820
accactcacc gcgtgccggc cgcncagcct ctcgggtaca tgctccgcac agtccagccc  2880
gtcccactcg cactccgcgc tgttgcagcc ctggtcgcag tgcccgtcgc tgaagtggtc  2940
cttgcagtac tggtcgtaca gggggttgca ctggccttcc gcacgctggc agtcaaagcc  3000
gtcgaagagg cagccggctg agttgcactg gctgtcacag tggccgtcac tgaagtactt  3060
ccagcactgc agagactgcg tgcagttctt ccaggggtca ttgaagttga gggagcagtc  3120
accgccgtcc cagccgcacg cgtggttgtt gcactgcagg ctgcagacct tgttgcccgc  3180
gtcctcctgg cactcgggca gctcgcacgc ctcctcgatc agcggcgggg ggatgtcgcg  3240
cccggcccca cccccgaagc tgtagtccag gatgtggcac aagagcccgt tgaatttggc  3300
ggggcacagg caacggtaga aggggctctc ggatgtgggc tcacaggtcc cctggttgta  3360
gcaggggttg ccgcccaggc aggggctgct ggccgggaac tggcattcgg ggcccgtgaa  3420
ggggcccagg cacaggcagg tggggctgcg cgggccggag atgcatgtgc cgccgttgag  3480
gcagcgcagg ctgccgcagg tacgagcgtc attctcacac gtggcgccct cgaagcccgc  3540
agggcacttg cagatgaaac ccgcgggcgg tgttggaggc cacggcgcag gtgccccat   3600
tcttgcaggg cttgcctttg cagccattga tgacggactc gcagcggcgc ccggtgtgac  3660
cagcacggca ctcgcagtgg aagtcattga cgcgctgcac gcagttctgg gtgccacggg  3720
cgtcgcaggg attggacagg cactcgttga catccccctc acagcgctca cccacgaagc  3780
ccggcgggca ggtgcagctg tagccgccca cctggtccac gcaggtgccg ttgttaaagc  3840
acttgggggct ccgggacacg gggtcaacgg ggggattgca gtcgtccacg ttgatctcac  3900
agtgcacacc ctgagtgccc cgtgggcagg agcacttgta ggtgttgggg aggtcgaggc  3960
aggtgccccc gttctggcag gggtgggaga ggcactcgtc gatctcctca gagcagttca  4020
ccccgtggta gccggccacg cacttgcagg agtagccgcc caggtagtcc gtgcaggtgg  4080
ccccgttctg gcaggggctg ggtgagcact cgtccaccag gtcctcacag tagctgcctg  4140
tgtagcccgc ctggcagcgg cagtggtgcg tgttgcccgc gtccacacag agccctccat  4200
gctggcacag gcgggcaacg tcaacacctt gtcgctgcgc agccacctca caggacacgc  4260
tgggcacgtc gcagtaaagg ccggtccagc cgctggggca ctcgcagcgg tactgggtgt  4320
gggtctgcca gcatttgccg ccgttcttgc agggcgagga gtcacaccag tgcacaaggt  4380
tctggcagtt ggggccagtg tagccctggg ggcaggtgca cctgtggaga ccgcgaccgt  4440
cctgacaggt gccgcctagc aggcagggtc gtgagtcgca ctcattgact acgtgctggc  4500
agtagctgcc cgtgaagccg ggtggacaca ggcaggtgaa cgagttgatg ccgtccacgc  4560
aggtgccacc gttgaagcag gagctctctg tgcagtcagg cgtgttgttc tcacagtgga  4620
tcccgctgaa gcctgcgggg caggtgcacg tgtagctgtc cacgcagtcc gtgcagttgg  4680
ccccgttgcg gcaggggtca ctggcacact cgttgatgtc ctcctcacag aaagtgcccc  4740
ggaagccggg caggcagtcg cagaaggccg tgttgatgcc gtctgtgcag gagcccccgt  4800
tgtgacacgg gttgggccgg cagtcgtcga tgtcggtctc gcagttgcgc ccactgtagc  4860
cggcctggca gtggcagcgg tagccgccgt gggtgttctg gcaggatgcg ccgtgccggc  4920
acgggctcag aacgcactcg ttgat                                        4945
```

```
<210> 3231
<211> 2495
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(662)
<223> similar to gi5901836 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```